# Repair data package

## Industrial enhanced-safety radio remote controls

## *UD Series* *- Level 2 -*

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**Purpose of repair data package and product intervention sheet**

**Subfolder : DOSGEN R35 E00***

**1**

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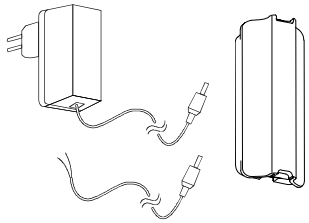
**Battery pack / Voltage adapter UDB-UBC**

**Subfolder: DOSGEN R25 E00***



**2**

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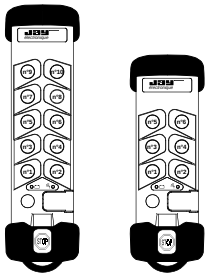
**Radio transmitter UDE**

**Subfolder: DOSGEN R26 E00***



**3**

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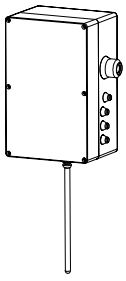
**Radio receiver UDR**

**Subfolder: DOSGEN R27 E00***



**4**

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JAY électronique

TÜV CERT EN ISO 9001 Certificat : 71 100 6 072

*** = Subfolder version**

# *Acknowledgement of receipt of documentation*

# UD repair data package v.3

## Industrial enhanced-safety radio remote control

## *UD series - level 2 -*

Family name : _____ First name : _____ Company : _____

This will acknoledge receipt of the following document(s) :

**CD-Rom with :**

- **Purpose of UD repair data package subfolder ref: DOSGENR35 E001 version**
- **UDB-UBC subfolder ref: DOSGENR25 E003**
- **UDE subfolder ref: DOSGEN R26 E003**
- **UDR subfolder ref: DOSGENR27 E003**

Date : _____ Signature:

☞ ***Please fill in and return (or fax) to :***


***JAY électronique, Eric DECHAME - service documentation***

***Address:*** *176, rue Lavoisier MONTBONNOT St MARTIN 38334 St ISMIER CEDEX - FRANCE*

***Tel:*** *+33.(0)4.76.41.44.00* ***e.mail :*** *doc@jay-electronique.fr*
***Fax:*** *+33.(0)4.76.41.44.44*

LE 23/07/2004 A 17:52:40 EDITION DE DOSSIER DOS011

DOSSIER : DOSGEN R35 E 001
UD REPAIR DATA PACKAGE-GENERAL INF.+INTERV.SHEET

ARTICLE : DOSGEN R35

FOURNISSEUR : 38JA10 JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF 176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 23.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC.RECEPT: 0.00.0000

DOSSIER SOURCE :

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

| N°ORDRE | DOCUM/OUTIL | ETAT | DESIGNATION | |
|---|---|---|---|---|
| 01 | SN 350100 00 | V | UD REPAIR DATA PACKAGE GENERAL INFORMATION | UD |
| 02 | SN 350110 00 | V | HELP TO FILL IN UD INTERVENTION SHEET | UD |
| 03 | SN 350120 00 | V | UD INTERVENTION SHEET | UD |

# Repair Data Package
# *UD Series*

## *- level 2 -*

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| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 01.10.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: (0)4.76.41.44.00
Fax: (0)4.76.41.44.44


| | |
|---|---|
| **UD repair data package general information** | **Format:** A4 |
| | **Filename:** SN350100-00-EN.P65 |
| | **DOC REF.:** **SN350100.00** **Page:** **1 / 5** |


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## 1- Purpose of repair data package

You have just received a maintenance data package for a JAY électronique device.

This data package contains all the information you will need to efficiently intervene when performing maintenance on our product.
You will also find the necessary information to prepare a repair diagnostic and replace faulty sub-assemblies.

The repair data package is intended for:

- the JAY électronique maintenance department
- Service Stations certified by JAY électronique
- customers trained by JAY électronique.

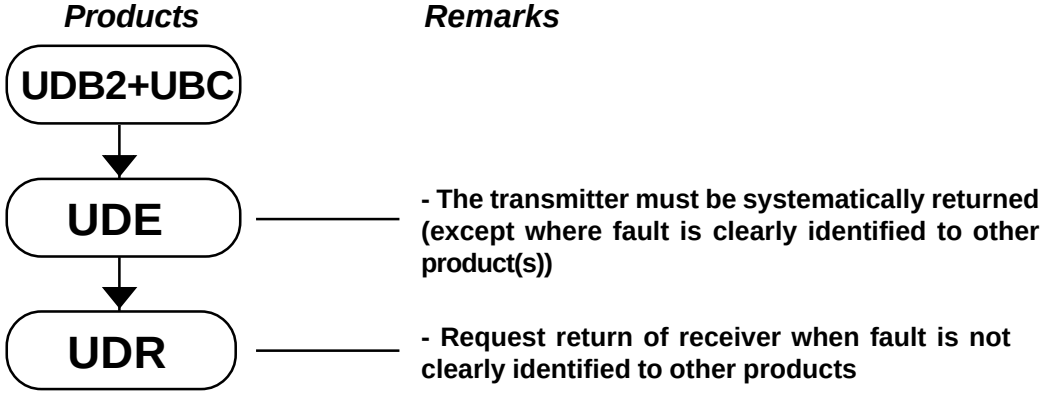
The contents of this data package are detailed in section 4.

☞ **Do not forget to fill in and return the data package acknowledgment of receipt form in order to allow us to register, update and follow-up this data package.**

## 2- Product maintenance process

| PROCEDURE | DOCUMENTS | SPECIAL TOOLS |
|---|---|---|
| Fault isolation | Diagnostic sheets | YES |
| Product upgrade | Upgrade sheets | NO |
| Cost estimate preparation | Intervention sheets (to be filled in) | NO |
| Customer approval | Approved estimate | NO |
| Replacement of sub-assemblies | Sub-assembly replacement procedure | YES |
| Repaired product inspection | Final inspection sheet | YES |

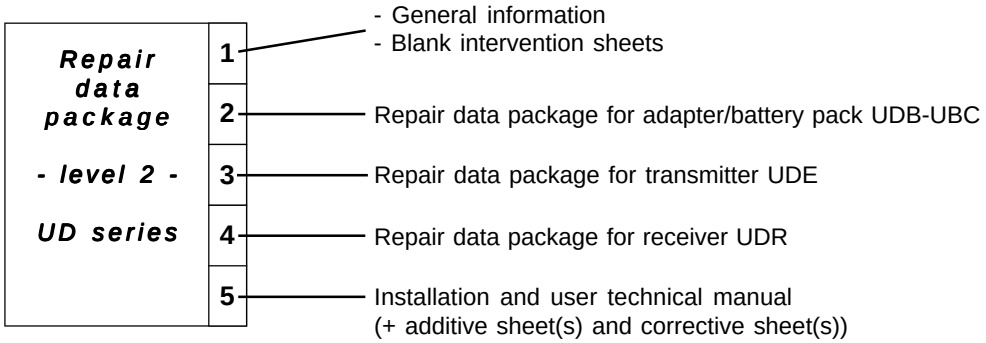
## 3- Product diagnostic sequence to be observed



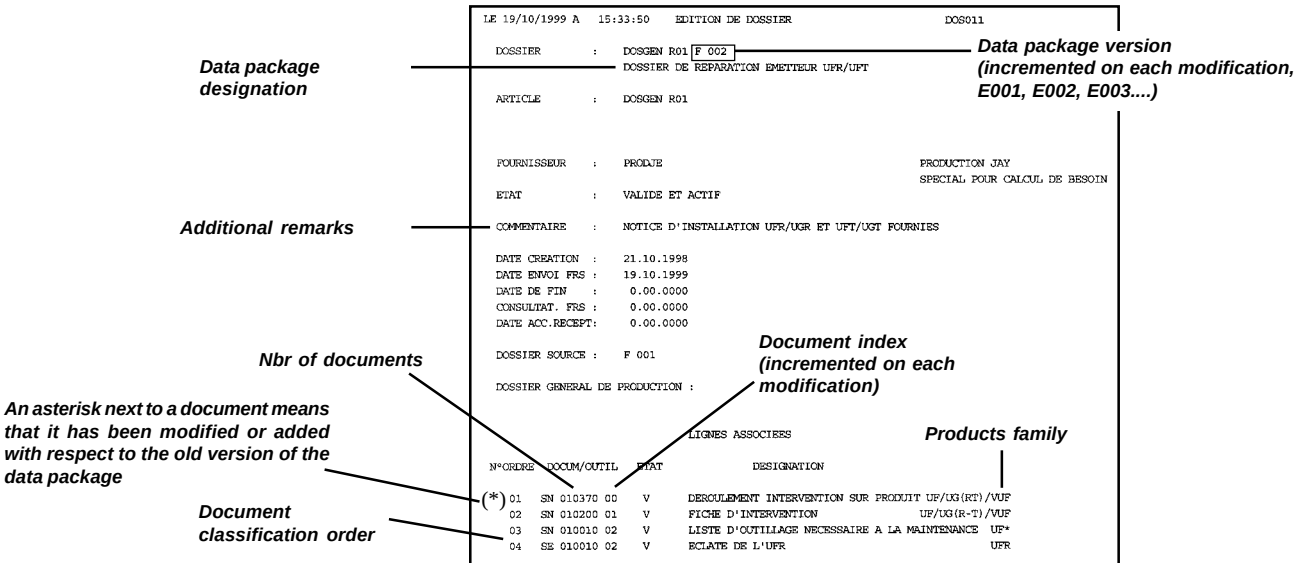
# 4- Content and breakdown of repair data package

• The repair data package is formed by sub-packages corresponding to each of the sub-assemblies of the product:
- one sub-package for the General information, designated data package DOSGENR35
- one sub-package for the UDB and UBC, designated data package DOSGENR25
- one sub-package for the transmitter UDE, designated data package DOSGENR26
- one sub-package for the receiver UDR, designated data package DOSGENR27

• Each of these sub-packages comprises:
- a table of contents (indicating the general revision index for the sub-package and its content)
- an exploded view of the product with the spare parts references (numbered SE....)
- an upgrade document of product evolutions (numbered SN...)
- a fast test, technical diagnostic and final test (numbered SJ ..., except for the UDB-UBC data package, there is only one technical diagnostic)
- repair procedures, numbered SN.... )




**Detail of contents of sub-packages:**




**Data package update:**

Technical documents are subject to change. Whenever applicable, we will systematically update you with the last versions and a new summary of the data packages.

*This condition is subject to your returning the acknowledgement of receipt provided , duly filled in.*

## 5- Safety precautions when intervening on equipment

**Before intervening on equipment, be sure to observe the following precautions:**

**A)** Shut down the receiver before you change any sub-assemblies.

**B)** Take all necessary precautions with respect to voltages present on control relay contacts.

**C)** Ensure that all voltages at terminal strips are at 0 V.

**D)** Use work stations equipped with protection systems against electrostatic discharges (conductors + bracelets) when handling electronic boards.

**E)** To maintain system tightness after reassembly, perform work on a clean, spacious workstation.

Ensure all seals and seal-bearing surfaces are clean when reassembling equipment.

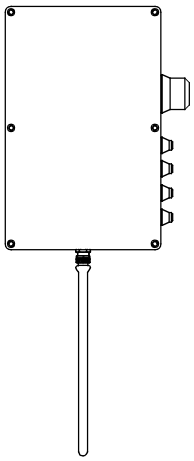
**F)** Store disassembled parts and spare parts to avoid deterioration:

- seals
- seal bearing areas
- electronic components

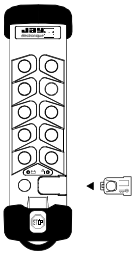
**G)** Ensure all personnel is protected when conducting tests.

# 6- Tools required for repair

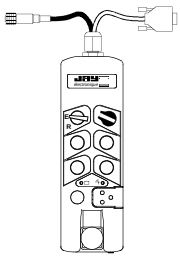
## 6.1- Special test tools:



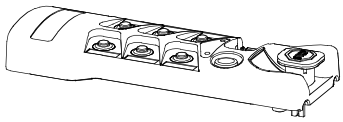
Test UDR receiver 3+6 relays
230 VAC
with IR and serial options
**ref : UDR1AB11 011**



Test UDE
5 rows BPDV
(double speed pushbuttons)
with IR option
+ Grey electronic key
**ref : UDE122222 010**

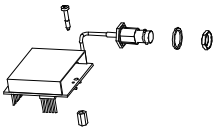


Test and programming tool
**ref : PO1527**

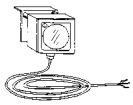


Equipped cover kit
**for UDE v.D001 and higher**
(6 pushbuttons)
**ref : PR0209 6**

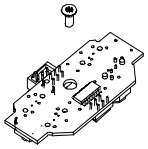
Test transmitter radio module
**ref : PR0120 E**



Test receiver radio module
**ref : PR0120 R** (UDR v.A001 to B002 incl.)
and **PR0208 R** (UDR v.B003 and higher)



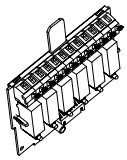
Test IR module
**ref : UDF1**



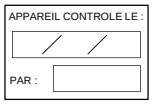
Set of button boards
**ref : PR0117 1 to E**

Test battery pack
**réf : UDB2**
+ test V.adapter
**réf : UBC ***

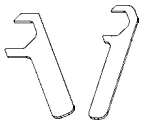
Screws + supply kit for UDE
**ref : PR0141** (UDE v.A001 to C002 incl.)
and **PR0230** (UDE v.D001 and higher)
**(see doc.SE260310)**



Test relay board
**ref : PR0122**

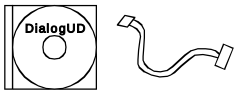



Repair label
(roller of 1000 labels)
**ref : PR0229**

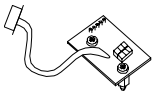


Spanners kit for receiver UDR :
- Pg29
- serial option
**ref : PR0142**

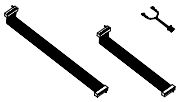
**For UDE version from A001 to C002 included** :
Tool for assembly / disassembly the stop palmswitch button
**ref : PR0130**




DialogUD software
(**version 5.1** or +)
(with cable)
**ref : UDWR36**



Serial link accessory
**ref : UDWR32**



Connection kit
**ref : PR0116**
**(see doc.SE260310)**

+ PC micro-computer 486 DX4 100Mhz min., windows 95-98-Me-2000-XP
32MB RAM + serial port

### 6.2- Standard tools :

- Screwdriver, TORX No. 10
- Screwdriver, POSIDRIV No. 2
- Screwdriver, POSIDRIV No. 1
- 4mm tubular socket wrench
- 2.5mm hex head wrench
- 6mm flat tip screwdriver
- 16mm box wrench
- Electronics technician flat nose pliers
- Cutter
- Soldering iron

### 6.3- Measures :

- Digital multimeter
- Battery test tool ref:PO1572 (only on JAY Electronique plant)

### 6.4- Power supplies :

- Stabilised power supply 0-24VDC / 1 A min. with fine voltage adjustment (tenth of a volt).

- AC power supply 24-48 VAC / 1 A min.

# Help to fill the UD intervention sheet

## 1- Terms used in maintenance interventions and invoicing

### 1.1- Type of intervention

**Repair (REP) :**
Return to serviceable condition following diagnostic, by replacement of sub-assembly(s).

**Overhaul (REV) :**
Upgrading of sub-assemblies to integrate product evolutions.
Ex: replacement of wiring to prevent disconnection...

**Modification (TRA) :**
Modification of a product function subsequent to a customer request.
Ex: Change of type of button...

**Preventive maintenance (MPR) :**
Proposal for replacement of sub-assembly(s) to prevent deterioration of a component, or a missing part.
Ex: oxydised connector, housing which is no longer watertight, etc.

### 1.2- Type of invoicing

**Covered by warranty (SG) :**
The cost of the repair is covered by the company for the product warranty period.

**Covered by repair warranty (SGR) :**
The cost of the repair is covered by the company for the warranty period related to a repair already performed on a product.

**Not covered by warranty (HG) :**
The cost of repair, overhaul, preventive maintenance or modification of the product are for the customer's account.

## 2- Fault codes list to be put back on the intervention sheet

Choose for each replaced parts the most significant default code among the following list:

| Fault codes | Description |
|---|---|
| **A00** | Mechanical part cracked |
| **A01** | Internal mechanical part broken |
| **A02** | Mechanical part deformed |
| **A03** | external mechanical part broken |
| **A05** | Housing not tight |
| **A07** | Button broken or cracked |
| **A09** | Poor tightness |
| **A10** | Damaged strap |
| **A11** | Faulty stop palmswitch |
| **A13** | Mechanical part uncoupled |
| **A15** | IR window broken |
| **A16** | Button contact fault |
| **A17** | Mechanical part very dirty |
| **A18** | Mechanical part modified by third party |
| **B00** | Wiring oxydised |
| **B01** | Wiring broken |
| **B02** | Wiring disconnected |
| **B04** | Cable oxydised |
| **B05** | Cable cut |
| **B07** | Battery worn out |
| **B08** | Wiring stripped |

| Fault codes | Description |
|---|---|
| **C01** | Malfunction |
| **C03** | Microswitch failure |
| **C04** | Power supply fault |
| **C05** | Detection (voltage level) fault |
| **C06** | Electronic board oxydised |
| **C07** | Electronic board modified by third party |
| **C08** | Electronic component deteriorated |
| **C10** | Relay contact failure |
| **C16** | Microswitch damaged |
| **D00** | Connector oxydised |
| **D01** | Connector deformed |
| **D02** | Connector broken |
| **D03** | Bad connector connection |
| **E02** | Label not legible |
| **F00** | Oxydised screws |
| **F02** | Broken screws |
| **F03** | Seal cut |
| **F04** | Seal cracked |
| **G00** | Fuse failure |
| **G02** | Missing fuse |

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 07.06.04 | **Tech:** | | **Market:** | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: (0)4.76.41.44.00
Fax: (0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Help to fill UD intervention sheet** | **Format:** | A4 | |
| | **Filename:** | SN350110-00-EN.P65 | |
| | **DOC REF.:** | **SN350110.00** | **Page:** 1 / 1 |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# INTERVENTION SHEET - UDB2 - UDE - UDR Products

jay électronique
176 rue Lavoisier - MONTBONNOT ST MARTIN
38334 ST ISMIER CEDEX - FRANCE
Tel :+33.(0)4.76.41.44.00 - Fax: +33.(0)4.76.41.44.44
E-mail : service.client@jay-electronique.fr
Web : Http://www.jay-electronique.fr

**Intervention ref:**

**Diagnostic date :**

**Repair date :**

**USER**

**Company / contact :**

**Address:**

**Tel.:** **Fax:**

**INTERVENTION**

**Jay:** ☐ **Agent :** ☐

**Name :**

**Tel.:** **Fax:**

**Faults indicated by user:**

**Intervention and invoicing information:**
Type of intervention: **REP**: Repair / **REV**: Overhaul / **MPR**: Preventive maintenance. / **TRA**: Modification.
Type of invoicing: **SG**: covered by warranty / **HG**: not covered by warranty / **SGR**: covered by warranty after repair.
**Note: For a functional sub-assembly upgrade (REV) or a modification (TRA), enter code X99 in the fault code box for the part.**
**For a missing part, please tick the fault code X97 and fill in the information for the corresponding sub-assembly.**

**Return of complying product**
**In the event of a product returned alone, or a system (example: transmitter, receiver, etc.), verified as compliant, tick fault code X95 (line ZCONF1).**
**For a system (example: transmitter, receiver, ...) for which only one part is compliant (example: transmitter), tick fault code X95 (line ZCONF2).**

**Return of unrepairable product**
**For a product returned which cannot be repaired, tick fault code X96 (line ZNOREP).**

**Diagnostic result**
**UDE - UDB2 - UBCx**

**UDE** _ _ _ _ _ _

**Compl.ref :** _ _ _

**Date of manufacture :**
**Serial N° / OF :**
**Date last repair / reference :**
**Options list :**

**Identity code :**
**Radio channel nb :**
**Dead man duration :**

Intervention ref :
date of diagnostic :
date of repair :

| Reference (to be filled in) | Description of spare part | Fault code | Type of intervention REP | REV | MP | TRA | Type of invoice SG | HG | SGR | Price (Tax-exc.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **PR0057 BP** | Mechanical kit for pushbutton and BPTR | | | | | | | | | |
| **PR0057 COM** | Mechanical kit for rotary switch | | | | | | | | | |
| **PR0115** | Stop palmswitch button for UDE version A001 to C002 included | | | | | | | | | |
| **PR0116** | Transmitter connection kit | | | | | | | | | |
| **PR0117 _** | Button board | | | | | | | | | |
| **PR0117 _** | Button board | | | | | | | | | |
| **PR0117 _** | Button board | | | | | | | | | |
| **PR0117 _** | Button board | | | | | | | | | |
| **PR0120 E** | Radio module | | | | | | | | | |
| **PR0141** | Screws + supply for UDE version A001 to C002 included | | | | | | | | | |
| **PR0230** | Screws + supply for UDE from version D001 | | | | | | | | | |
| **PR0143** | Protective foams | | | | | | | | | |
| **PR0148** | Connector + cable for UBCU/UBCW | | | | | | | | | |
| **PR0207 _** | Transmitter Motherboard | | | | | | | | | |
| **PR0212 _** | Transmitter back housing | | | | | | | | | |
| **PR0209 _** | Equipped cover without IR option | | | | | | | | | |
| **PR0210 _** | Equipped cover with IR option | | | | | | | | | |
| **PR0215 _** | Equipped housing without IR option | | | | | | | | | |
| **PR0217 _** | Equipped housing with IR option | | | | | | | | | |
| **UBC _** | Adaptater (charging UDB2) / battery pack connector | | | | | | | | | |
| **UDB2** | Battery pack | | | | | | | | | |
| **UDC1** | Wall support | | | | | | | | | |
| **UDP1** | Shoulder strap | | | | | | | | | |
| **UDWE22 _** | Grey electronic key | | | | | | | | | |
| **UWE102** | Removable shoulder strap | | | | | | | | | |
| **UWE202** | Kit of 6 colored labels "movements" for pushbuttons | | | | | | | | | |
| **UWE203** | Kit of 18 b/w labels "special movements" | | | | | | | | | |
| **UWE204** | Kit of 30 b/w labels "special functions" n°1 | | | | | | | | | |
| **UWE205** | Kit of 48 blank labels "custmization" | | | | | | | | | |
| **UWE206** | Kit of 30 b/w labels "special functions" n°2 | | | | | | | | | |
| _ _ _ _ _ _ | Missing part | X97 | | | | | | | | |
| _ _ _ _ _ _ | Missing part | X97 | | | | | | | | |
| **ZCONF1** | Functional check OK (product alone) | X95 | | | | | | | | |
| **ZCONF2** | Functional check OK (product associated) | X95 | | | | | | | | |
| **ZNOREP** | Unrepairable product | X96 | | | | | | | | |
| | | | | | | | | | **Labour :** | |
| | | | | | | | | | **Sub Total (TE.)** | |

**Diagnostic result**
**UDR**

**UDR** _ _ _ _ _ _

**Compl.ref :** _ _ _

**Date of manufacture :**
**Serial nb / OF :**
**Date of last repair / reference :**
**Option list (if exist) :**

**Identity code :**
**Radio channel nb :**

intervention ref. :
date of diagnostic :
date of repair :

| Reference (to be filled in) | Description of spare part | Fault code | Type of intervention | | | | Type of invoice | | | Price (Tax-exc.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | REP | REV | MP | TRA | SG | HG | SGR | |
| **PR0122** | 6 relays board | | | | | | | | | |
| **PR0123** | Fuse kit | | | | | | | | | |
| **PR0124 _** | Receiver motherboard | | | | | | | | | |
| **PR0125 _** | Receiver housing | | | | | | | | | |
| **PR0127** | Rubber cable gland kit | | | | | | | | | |
| **PR0133** | IR window for UDF module | | | | | | | | | |
| **PR0134** | IR module electronic board | | | | | | | | | |
| **PR0138** | Serial option | | | | | | | | | |
| **PR0120 R** | Radio module for UDR version A001 to B002 included | | | | | | | | | |
| **PR0208 R** | Radio module for UDR from version B003 | | | | | | | | | |
| **UDF1** | 1 UDF IR module + 10m cable kit | | | | | | | | | |
| **UDF2** | 2 UDF IR module + 10m cable kit | | | | | | | | | |
| **UDWR _** | 16 or 24 pin male connector + cable | | | | | | | | | |
| **UDWR10** | 10 m cable extension kit for UDF IR module | | | | | | | | | |
| **UDWR11** | Plastic cable gland kit | | | | | | | | | |
| **UDWR12** | Common wiring accessory | | | | | | | | | |
| **UDWR32** | Serial link accessory | | | | | | | | | |
| **VUB084** | 1/4 wave antenna 400 MHz | | | | | | | | | |
| **VUB08 _** | Other 400 MHz Antenna | | | | | | | | | |
| **VUB1 _ _** | Receiver antenna extension 5m + support | | | | | | | | | |
| **VUB100** | Receiver antenna extension 2m + support | | | | | | | | | |
| _ _ _ _ _ _ _ | Missing part | X97 | | | | | | | | |
| _ _ _ _ _ _ _ | Missing part | X97 | | | | | | | | |
| **ZCONF1** | Functional check OK (product alone) | X95 | | | | | | | | |
| **ZCONF2** | Functional check OK (product associated) | X95 | | | | | | | | |
| **ZNOREP** | Unrepairable product | X96 | | | | | | | | |
| | | | | | | | **Labour :** | | | |
| | | | | | | | **Sub Total (TE.)** | | | |

LE 25/11/2004 A 12:03:53 EDITION DE DOSSIER DOS011

DOSSIER : DOSGEN R25 E 003
UD REPAIR DATA PACKAGE : UDB2-UBC PART

ARTICLE : DOSGEN R25

FOURNISSEUR : 38JA10

JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF

176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 26.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC.RECEPT: 0.00.0000

DOSSIER SOURCE : E 002

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

| | N°ORDRE | DOCUM/OUTIL | ETAT | DESIGNATION | |
|---|---|---|---|---|---|
| * | 01 | SN 250040 02 | V | LIST OF TOOLS | UDB2-UBC |
| * | 02 | SE 250020 02 | V | PRODUCTS REFERENCES | UDB2-UBC |
| * | 03 | SN 250050 02 | V | CHANGES AND UPGRADES | UDB2-UBC |
| * | 04 | SJ 250020 02 | V | TECHNICAL DIAGNOSTIC | UDB2-UBC |
| | 05 | SN 250060 01 | V | BATTERY PACK TEST PROCEDURE | UDB2-UBC |

# Tools required for diagnostic on battery pack and adapter

## ❍ Mechanical part:

- No special tools required

## ❍ Measurement and test part:

- Multimeter
  equipped with test points
- Battery test tool ref : PO1572
  (Only for JAY Electronique plant)
- UBCU - UBCW test adapter

or

- Stabilised power supply, 0-24VDC / 1 A min. + UBC1.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | PO1572 Battery test tool | E.DECHAME | 01.10.04 | Tech: | | Market: | |
| 01 | T 727 | Update for UDB2 | E.DECHAME | 05.09.01 | Tech: | | Market: | |
| 00 | T 727 | First issue | E.DECHAME | 24.01.01 | Tech: | DPO | Market: | GR |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

**List of tools**
**UBC - UDB2**

| | |
|---|---|
| Format: | A4 |
| Filename: | SN250040-02-EN.P65 |
| DOC REF.: | SN 250040.02 |
| Page: | 1 / 1 |

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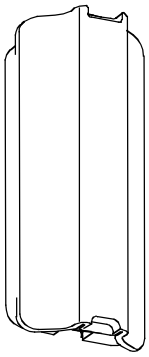
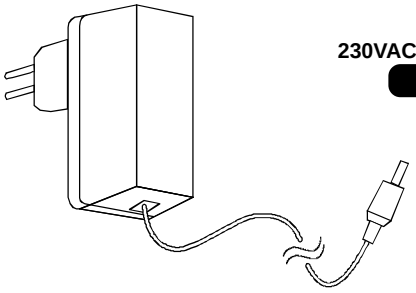
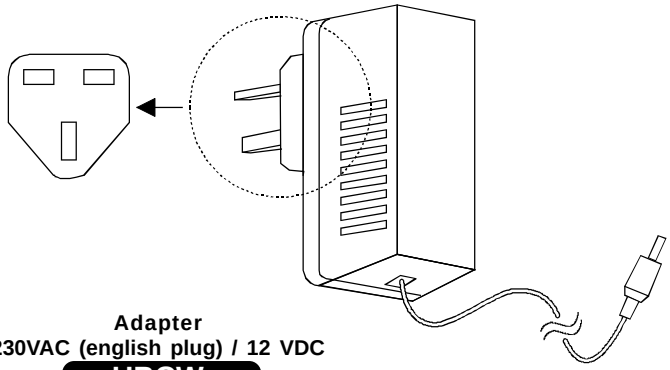


**Battery pack**
**UDB2**



**Adapter**
**230VAC (Euro. plug) / 12 VDC**
**UBCU**

**Connector + cable for UBCU and UBCW**
**PR0148**



**Adapter**
**230VAC (english plug) / 12 VDC**
**UBCW**

**10 - 30VDC**

**Battery connector (vehicle plug)**
**UBC1**

Black/white wire = +

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | PR0148 added | E.DECHAME | 10.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Products references**
**UBC - UDB2**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE250020-02-EN.P65 |
| DOC REF.: | SE 250020.02 |
| Page: | 1 / 1 |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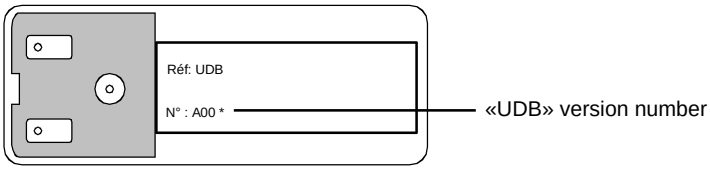
# Changes and upgrades - Battery pack UDB2

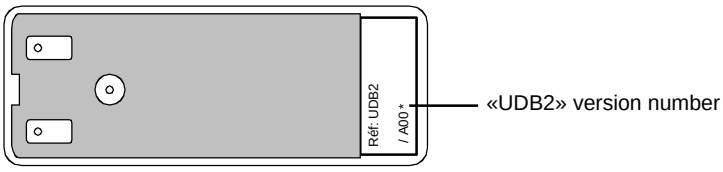
**Table of changes :**




## UDB

| UDB<br>Battery pack version number | Change description | Dates |
|---|---|---|
| **A001** | 1st version | 04/2000 - 09/2000 |
| **A002** | Pack tightness improved | 09/2000 - 10/2000 |
| **A003** | Shock resistance improved | 10/2000 - 11/2000 |
| **A004 or A005** | Polyswitch on electronic circuit eliminated | 11/2000 - 02/2001 |

Changing the product reference
UDB -> UDB2




## UDB2

| UDB2<br>Battery pack version number | Change description | Dates |
|---|---|---|
| **A001** | Major change<br>Increase autonomy by NiMH technology | 02/2001 - 01/06/2001 |
| **A002** | Connexion improved (Golden contacts)<br>board re-routing | 01/06/2001 - 15/06/2001 |
| **A003** | Contact improved with transmitter<br>housing contact-pins | 15/06/2001 - 12/2002 |
| **A004** | minor change | 12/2002 - 01/2004 |
| **A005** | minor change | since 01/2004 |

## Obligatory upgrade :

Battery pack «**UDB**» must be systematically replaced by «**UDB2**» **A003 min**. version.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Updates for UDB2 | E.DECHAME | 28.06.04 | Tech: | | Market: | |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

**Changes to battery packs**
**UDB2**

| | |
|---|---|
| **Format:** | A4 |
| **Filename:** | SN250050-02-EN.P65 |
| **DOC REF.:** | **SN 250050.02** |
| **Page:** | **1 / 1** |

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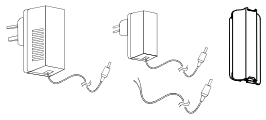

# TECHNICAL DIAGNOSTIC: UBC-UDB2

***- For preparation of estimate -***

**PRODUCT INTERVENTION SHEET**
*(TO BE COMPLETED)*

| Tools | Additional information | | PRODUCT INTERVENTION SHEET |
|---|---|---|---|
| | | **START** | sub-assy to be replaced |
| | | **Check of changes to battery packs**<br>Check compliance of battery pack | |
| | See document "Changes to battery packs" ***SN250050*** | Battery pack complies with respect to technical changes table? — no | ***UDB2*** Battery pack |
| | | yes | |
| | | **Visual inspection of adapter**<br>Check condition of adapter, connector, jack and wires | |
| | | Adapter in good condition ? — no | ***UBC•*** adapter or ***PR0148*** connector + cable (P.M.) |
| | | yes | |
| | | **Functional check of adapter** | |
| | | UBCU - UBCW / UBC1 | |
| Multimeter in voltmeter mode | | Connect the adapter to the mains and measure the output voltage / Check continuity of wiring | |
| Multimeter in ohmmeter mode | | Voltage output is 12 volts ? — no<br>Wiring continuity OK? — no | ***UBC•*** adapter or ***PR0148*** connector + cable (P.M.) |
| | | yes / yes | |
| | | **Visual inspection of battery pack**<br>Check condition of seal, shell and strength of pack once inserted in back of transmitter | |
| | | Battery pack in good condition — no | ***UDB2*** Battery pack (P.M.) |
| | | yes | |
| Test UBC• adapter or stabilised power supply set for 12vdc | | **Functional check**<br>Connect battery pack to adapter or power supply using Jack cable | |
| | | Check if battery pack red LED comes on | |
| | | Battery pack red LED comes on ? — no | ***UDB2*** Battery pack |
| | | yes — Continued on page 2 | |

**Symbols/abbreviations :**
▶▶ **:** Continue Diagnostic
—■ **:** Stop Diagnostic
**P.M. :** Preventive Maintenance

| Index | Modif. No. | Modification | Name | Date | Approved by: |
|---|---|---|---|---|---|
| 02 | T 727 | PR0148 Added<br>Specific tool : PO1572 | E.DECHAME | 04.10.04 | Tech: / Market: |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Technical diagnostic**
**UBC - UDB2**

| | |
|---|---|
| Format: | A4 |
| Filename: | SJ250020-02-EN.VSD |
| DOC REF.: | SJ 250020.02 |
| Page: | 1 / 2 |

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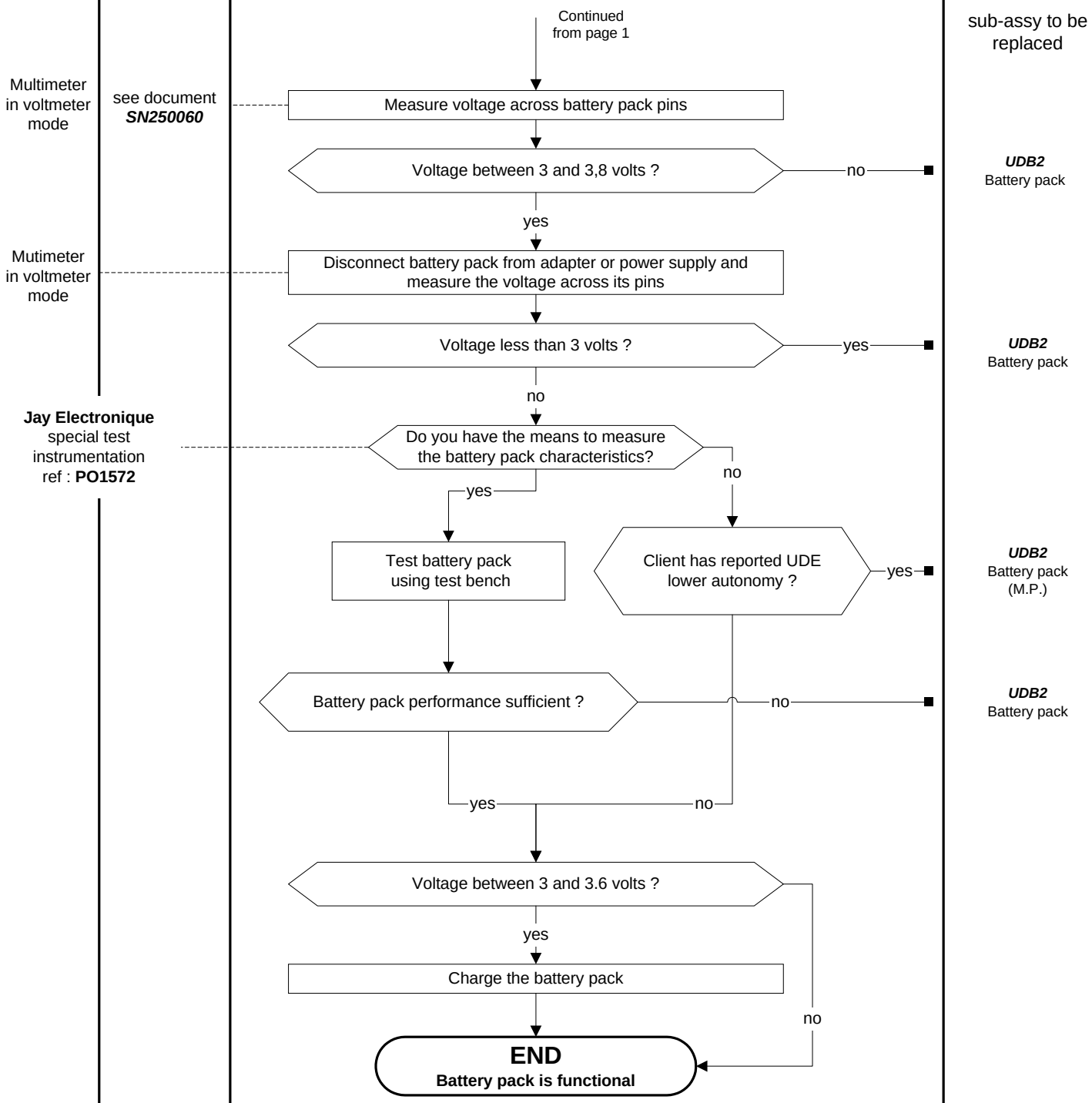
**Tools**

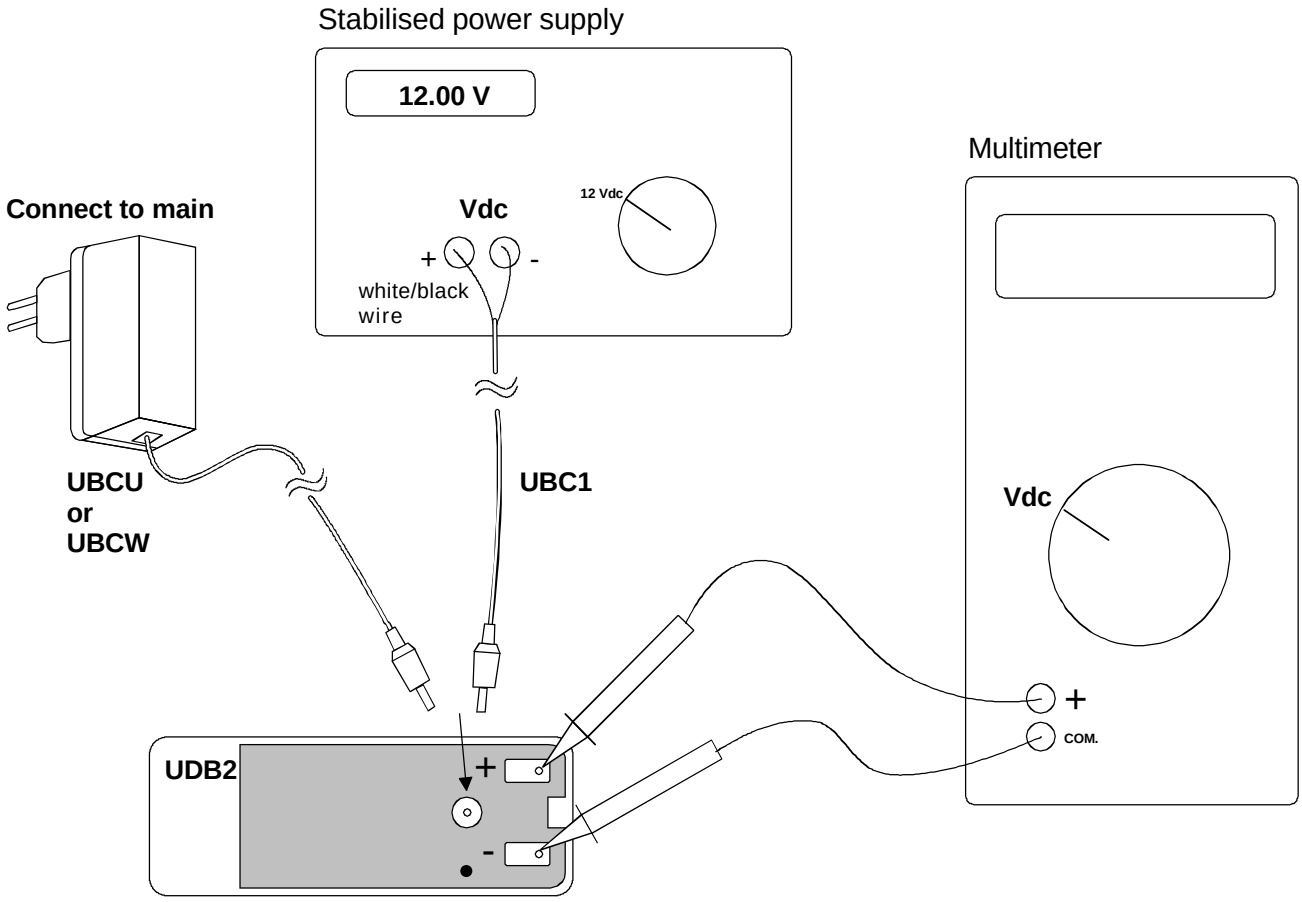
**Additional information**

**PRODUCT INTERVENTION SHEET**
*(TO BE COMPLETED)*

sub-assy to be replaced




**Symbols / abbreviations :**
▶▶: Continue Diagnostic
■: Stop Diagnostic




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 01 | T 727 | Update for UDB2 | E.DECHAME | 06.09.01 | Tech: | | Market: | |
| 00 | T 727 | First issue | E.DECHAME | 25.01.01 | Tech: | DPO | Market: | GR |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

**Battery pack test procedure**

**UDB2**

| | |
|---|---|
| Format: | A4 |
| Filename: | SN250060.P65 |
| DOC REF.: | **SN 250060.01** |
| Page: | 1 / 1 |

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LE 17/11/2004 A 15:08:18 EDITION DE DOSSIER DOS011

DOSSIER : DOSGEN R26 E 003
UD REPAIR DATA PACKAGE : UDE TRANSMITTER PART

ARTICLE : DOSGEN R26

FOURNISSEUR : 38JA10

JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF

176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 26.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC.RECEPT: 0.00.0000

DOSSIER SOURCE : E 002

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

| | N°ORDRE | DOCUM/OUTIL | ETAT | DESIGNATION | |
|---|---|---|---|---|---|
| * | 01 | SN 260220 02 | V | LIST OF TOOLS | UDE |
| * | 02 | SN 260225 00 | V | DETERMINE VERSION OF UDE TRANSMITTER | UDE |
| * | 03 | SE 260201 00 | V | EXPLODED VIEW / UDE VERSION A001 TO A005 INCL. | UDE |
| * | 04 | SE 260202 00 | V | EXPLODED VIEW / UDE VERSION A006 TO A010 INCL. | UDE |
| * | 05 | SE 260203 00 | V | EXPLODED VIEW / UDE VERSION B001 TO B004 INCL. | UDE |
| * | 06 | SE 260204 00 | V | EXPLODED VIEW / UDE VERSION B005 TO B010 INCL. | UDE |
| * | 07 | SE 260205 00 | V | EXPLODED VIEW / UDE VERSION C001 TO C002 INCL. | UDE |
| * | 08 | SE 260206 00 | V | EXPLODED VIEW / UDE VERSION D001 TO D002 INCL. | UDE |
| * | 09 | SE 260207 00 | V | EXPLODED VIEW / UDE VERSION D003 | UDE |
| * | 10 | SE 260300 00 | V | UDE LABEL KITS FOR VERSION A001 TO C002 INCL. | UDE |
| * | 11 | SE 260301 00 | V | UDE LABEL KITS FOR VERSION D001 AND HIGHER | UDE |
| * | 12 | SE 260310 00 | V | TRANSMITTER SCREW KIT AND ACCESSORIES | UDE |
| * | 13 | SN 260230 02 | V | UPGRADING THE TRANSMITTER | UDE |
| * | 14 | SJ 260040 02 | V | QUICK TEST BEFORE INTERVENTION | UDE |
| * | 15 | SJ 260050 02 | V | TECHNICAL DIAGNOSIS | UDE |
| * | 16 | SJ 260060 02 | V | FINAL TEST AFTER INTERVENTION | UDE |
| * | 17 | SN 260235 00 | V | UPGRADING TRANSMITTER INTERNAL PROGRAMM | UDE |
| * | 18 | SN 260240 02 | V | CONNECTING A POWER SUPPLY TO TRANSMITTER | UDE |
| * | 19 | SN 260250 02 | V | TEST OF STOP PALMSWITCH BUTTON | UDE |
| * | 20 | SN 260260 02 | V | CHANGING THE TRANSMITTER COVER AND HOUSING | UDE |
| * | 21 | SN 260265 01 | V | CHANGING THE PROTECTIVE FOAMS | UDE |
| * | 22 | SN 260290 02 | V | CHANGING THE PUSHBUTTON MECHANICAL KIT | UDE |
| * | 23 | SN 260300 02 | V | CHANGING THE ROTARY SWITCH MECHANICAL KIT | UDE |
| * | 24 | SN 260310 02 | V | CHANGING STOP PALM.BUT. ON UDE V.A001 TO C002 | UDE |
| * | 25 | SN 260320 02 | V | CHANGING A FUNCTION BUTTON BOARD | UDE |
| * | 26 | SN 260350 02 | V | CHANGING THE MOTHERBOARD WITHOUT IR START-UP | UDE |
| * | 27 | SN 260355 00 | V | CHANGING THE MOTHERBOARD WITH IR START-UP | UDE |
| * | 28 | SN 260360 02 | V | CHANGING THE RADIO MODULE | UDE |
| * | 29 | SN 260380 02 | V | MARKINGS ON REPAIRED TRANSMITTER | UDE |

# List of tools required for repair of transmitter UDE

## ❍ Mechanical part:

**All UDE versions :**

- No. 10 Torx screwdriver (for housing screws)
- No. 1 Posidriv screwdriver (for button board and mechanical kit)
- 2.5mm Allen wrench (for motherboard / radio module mounting screws)
- Cutter (to unfasten function labels)
- Flat angled plier (for assembly/disassembly of IR Otption)

**+**

**UDE version A001 to C002 only :**

- No. 2 Posidriv screwdriver (for housing screws)
- 4mm tubular socket wrench (for power supply connection pins and electronic key)
- Tool **PR0130** (for assembly/disassembly of stop palmswitch button)

## ❍ Measurement and test part:

**All UDE versions :**

- 0-24VDC / 1 A min. stabilised power supply with fine adjustment to 1/10th of a Volt
- Digital multimeter
- PC micro-computer with serial port
- Serial link accessory, ref. **UDWR32**
- «Dialog UD» software (version 5.1 minimum), ref. **UDWR36**
- Programming tool, ref.**PO1527**
- Test battery pack, charged, ref. **UDB2**
- Test receiver, ref : **UDR1AB11 011**
- Test UDF ref : **UDF1**
- Screws + supply kit : **PR0230** (from D001) or **PR0141** (version A001 to C002 included)
- Test function button boards, ref : **PR0117 1 to E**
- Test blank grey electronic key, ref : **UDWE22 V**
- Test radio module, ref : **PR0120 E**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | New spare parts and accessories | E.DECHAME | 10.06.04 | Tech: | | Market: | |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

**List of tools**
**UDE**

| | |
|---|---|
| Format: | A4 |
| Filename: | SN260220-02-EN.P65 |
| DOC REF.: | **SN 260220.02** |
| Page: | 1 / 1 |

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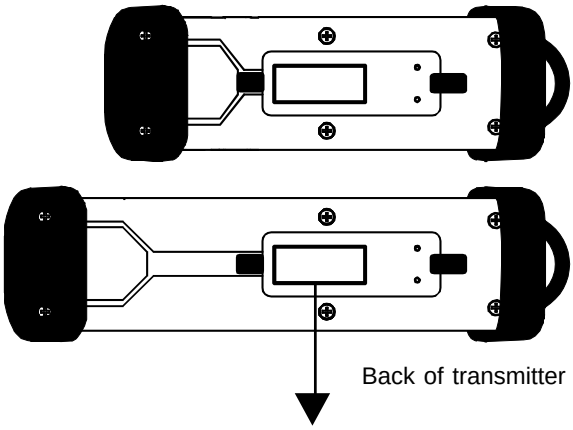
# Determine version of UDE transmitter

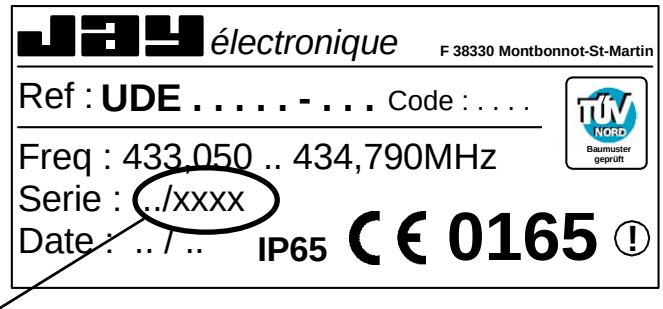
The version number is indicated on the nameplate, fastened to the back of the transmitter where the battery pack is located.

The number identifies the UDE version and therefore its various technical changes.

The table of technical changes (doc. SN260230) indicates all the upgrades which you need to perform on the UDE transmitter in accordance with its version number.

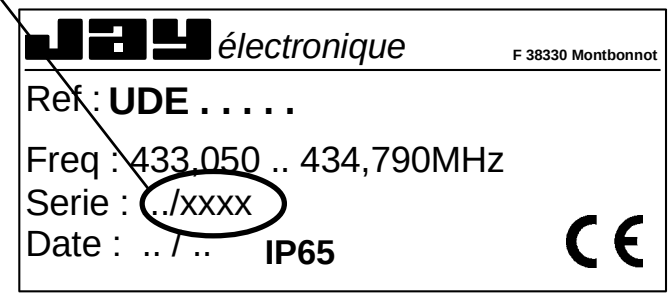



**Labels for UDE vers. A001 to B010**




**UDE Version number**
(i.e : C001)

**Labels for UDE vers. from C001**




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | first issue | E.DECHAME | 10.06.04 | Tech: | | Market: | |


JAY électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Determine the version of transmitter **UDE** | Format: A4 |
| | Filename: SN260225-00-EN.P65 |
| | DOC REF.: **SN 260225.00** Page: 1 / 1 |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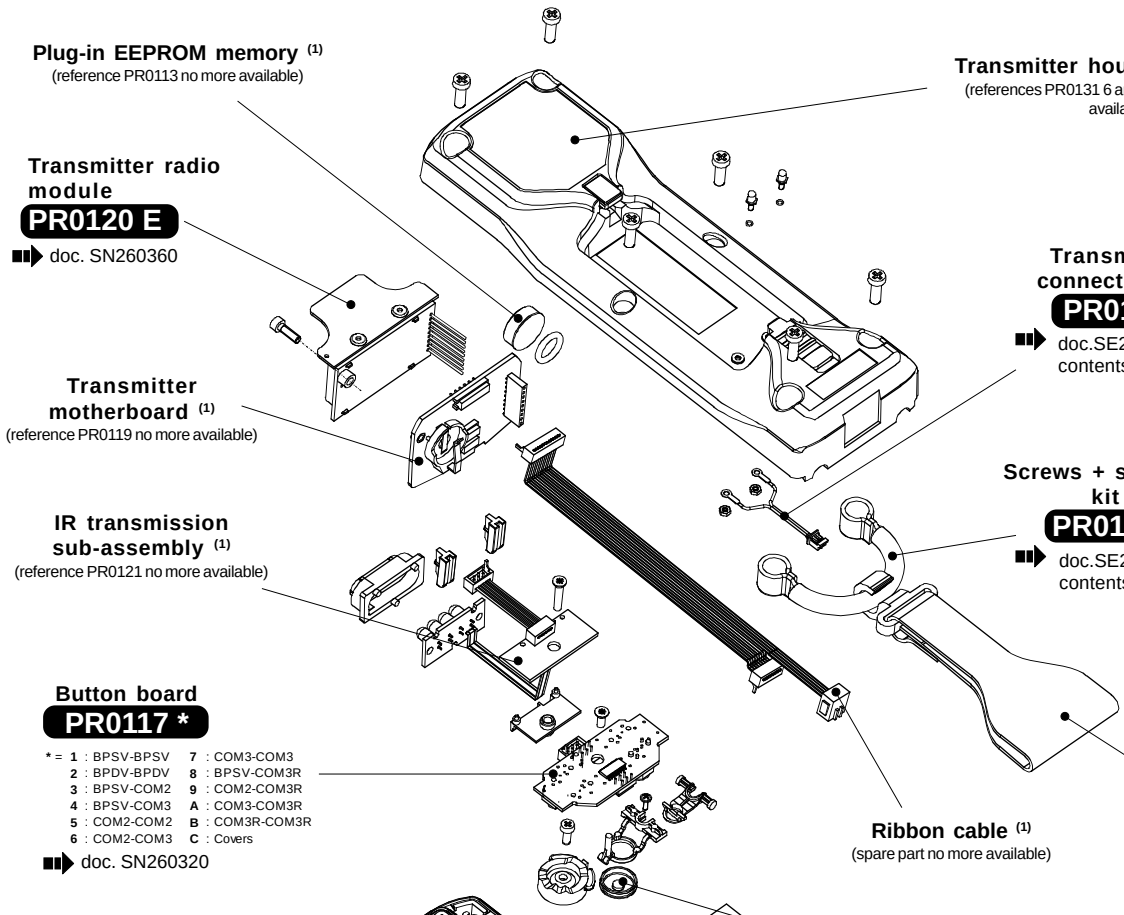
# UDE exploded view for version A001 to A005 included

*Note : The figure below shows a transmitter with 6 function buttons*



**Plug-in EEPROM memory** (1)
(reference PR0113 no more available)

**Transmitter housing bottom** (1)
(references PR0131 6 and PR0131 10 no more available)

**Transmitter radio module**
**PR0120 E**
doc. SN260360

**Transmitter connection kit**
**PR0116**
doc.SE260310 for contents

**Transmitter motherboard** (1)
(reference PR0119 no more available)

**Screws + supplies kit**
**PR0141**
doc.SE260310 for contents

**IR transmission sub-assembly** (1)
(reference PR0121 no more available)

**Button board**
**PR0117 ***

* = **1** : BPSV-BPSV **7** : COM3-COM3
**2** : BPDV-BPDV **8** : BPSV-COM3R
**3** : BPSV-COM2 **9** : COM2-COM3R
**4** : BPSV-COM3 **A** : COM3-COM3R
**5** : COM2-COM2 **B** : COM3R-COM3R
**6** : COM2-COM3 **C** : Covers

doc. SN260320

**UDE strap**
**UDP1**

**Ribbon cable** (1)
(spare part no more available)

**Non IR UDE housing cover** (1)
(references PR0114 6 and PR0114 10 no more available)

**IR UDE housing cover** (1)
(references PR0132 6 and PR0132 10 no more available)

**Mechanical kit for 10 pushbuttons**
**PR0057 BP**
doc. SN260290

**IHM board** (1)
(reference PR0118 no more available)

**Function label kits**
**UDWE ****
** = see doc.SE260300 for contents

**Transmitter housing seal** (1)
(references PR0129 6 and PR0129 10 no more available)

**Mechanical kit for 5 rotary switches**
**PR0057 COM**
doc. SN260300

**Stop palmswitch button**
**PR0115**
doc. SN260310

**GREEN electronic key** (1)
(reference UDWE21 no more available)

**(1)** : This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly.
Refer to instructions in document **SN260230**

**Legend :**

**X** — Description
**Y** — Reference
doc. Z — assembly/disassembly procedure

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | first issue | E.DECHAME | 10.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**
**UDE**
**version A001 to A005**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260201-00-EN.P65 |
| DOC REF.: | **SE260201.00** |
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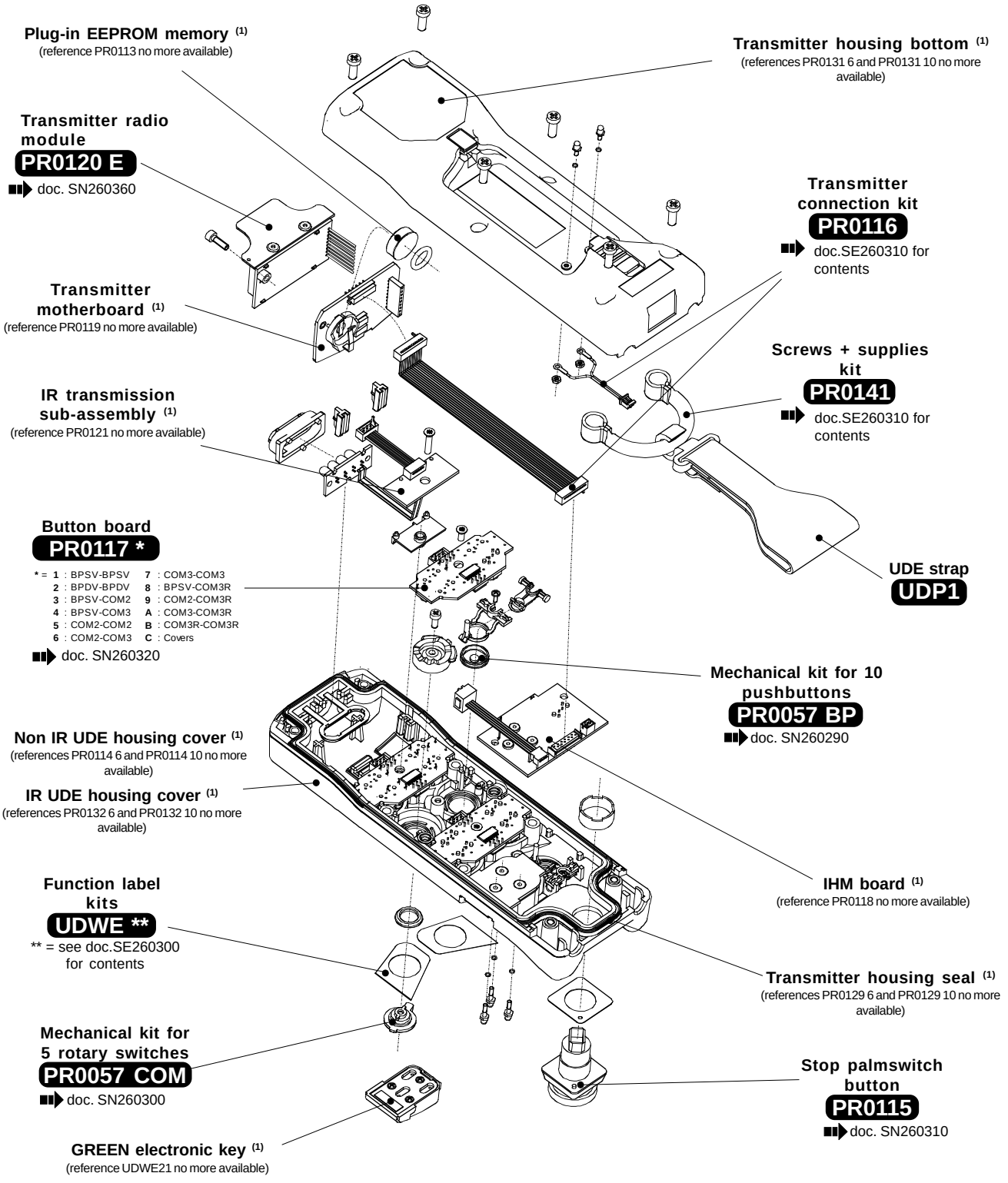
# UDE exploded view for version A006 to A010 included

*Note : The figure below shows a transmitter with 6 function buttons*




**(1)** : This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly.
Refer to instructions in document **SN260230**

**Legend :**

X — Description

Y — Reference

doc. Z — assembly/disassembly procedure

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
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Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**
**UDE**
**version A006 to A010**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260202-00-EN.P65 |
| DOC REF.: | SE260202.00 |
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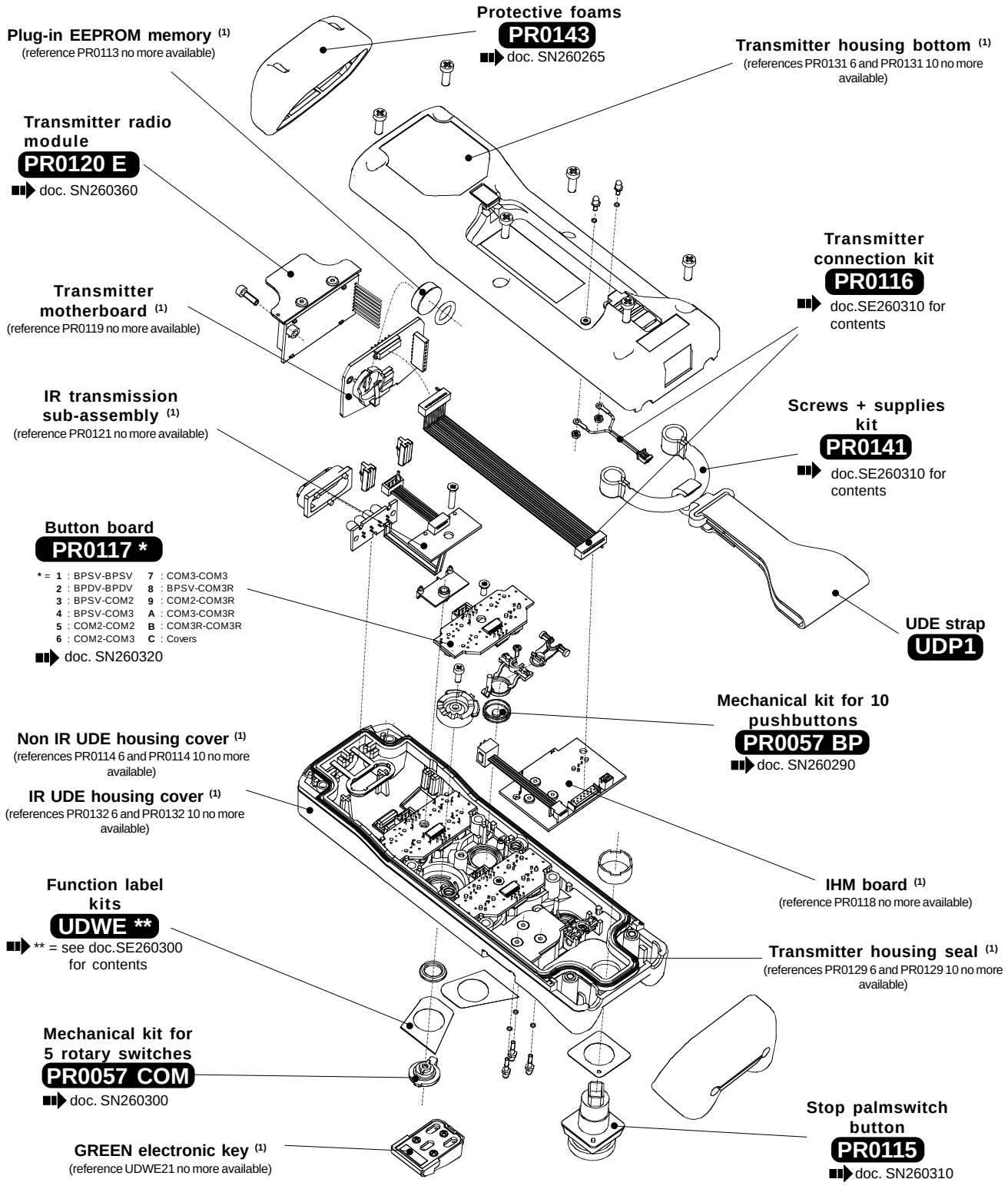
# UDE exploded view for version B001 to B004 included

*Note : The figure below shows a transmitter with 6 function buttons*




**(1)** : This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document **SN260230**

**Legend :**

X — Description

Y — Reference

doc. Z — assembly/disassembly procedure

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
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Jay électronique

BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**

**UDE**

**version B001 to B004**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260203-00-EN.P65 |
| DOC REF.: | SE260203.00 |
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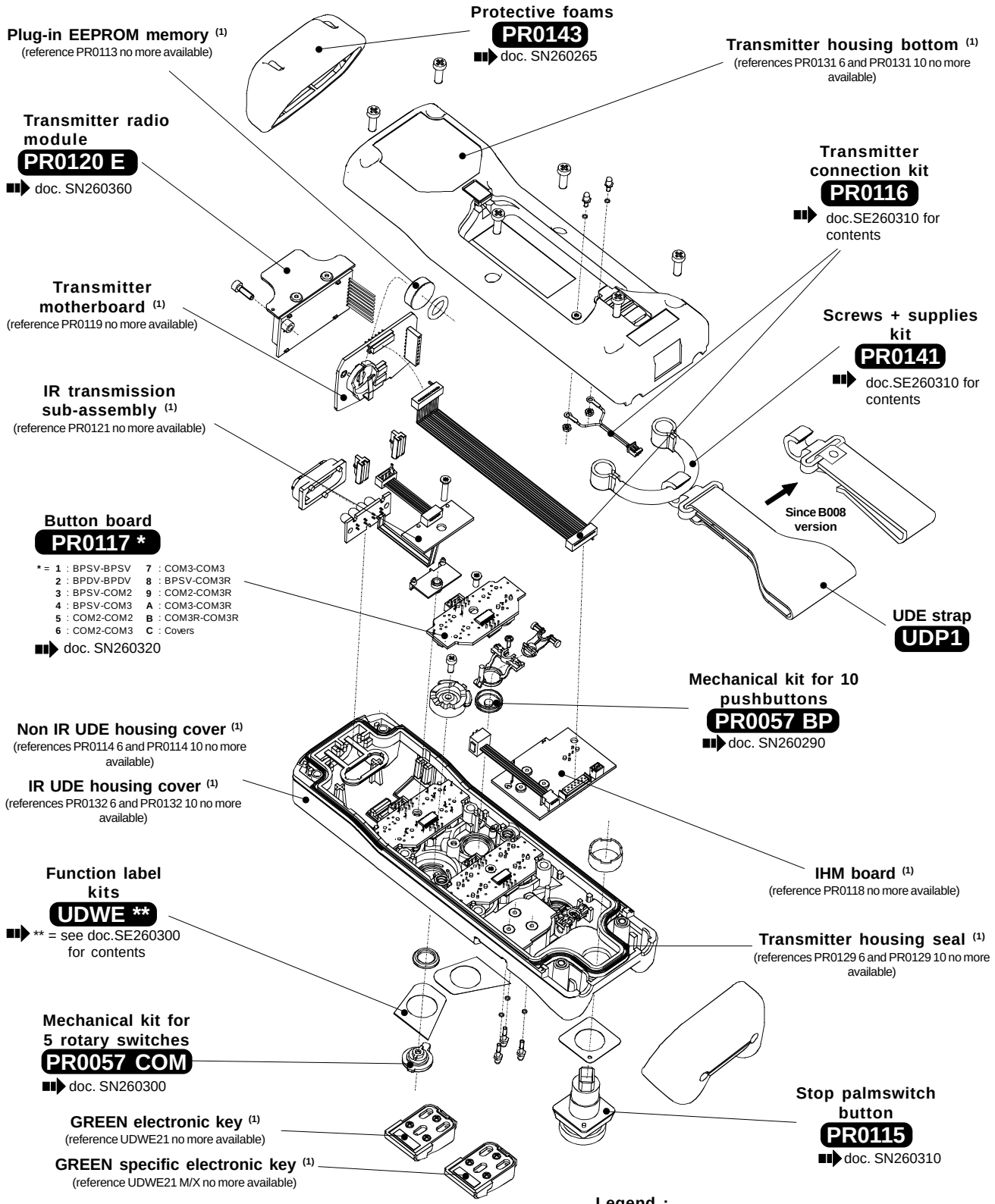
# UDE exploded view for version B005 to B010 included

*Note : The figure below shows a transmitter with 6 function buttons*




**(1)** : This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document **SN260230**

**Legend :**

X — Description

Y — Reference

doc. Z — assembly/disassembly procedure

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
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Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**

**UDE**

**version B005 to B010**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260204-00-EN.P65 |
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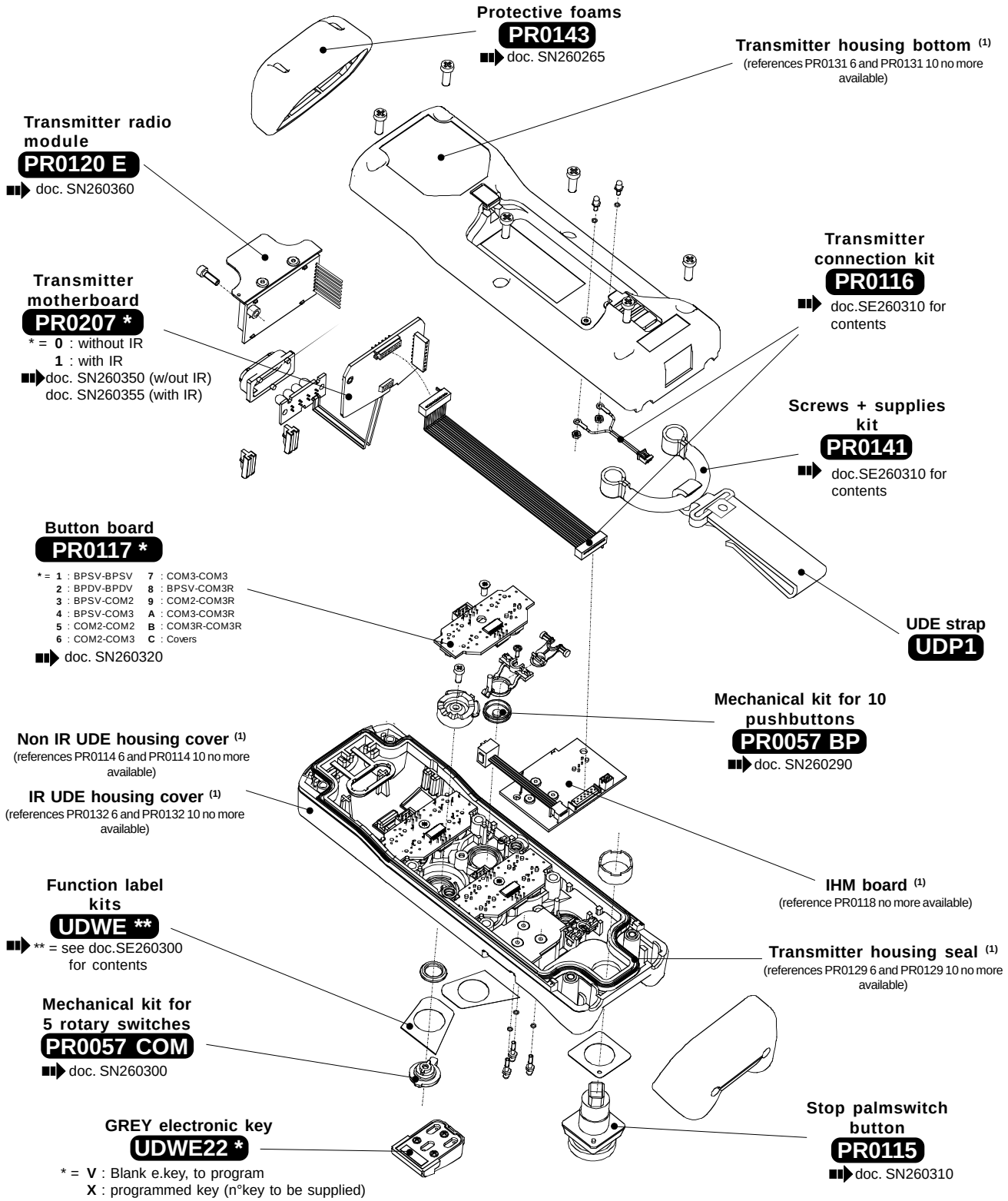
# UDE exploded view for version C001 to C002 included

*Note : The figure below shows a transmitter with 6 function buttons*




**(1)** : This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document **SN260230**

**Legend :**

X — Description

Y — Reference

doc. Z — assembly/disassembly procedure

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Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**

**UDE**

**version C001 to C002**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260205-00-EN.P65 |
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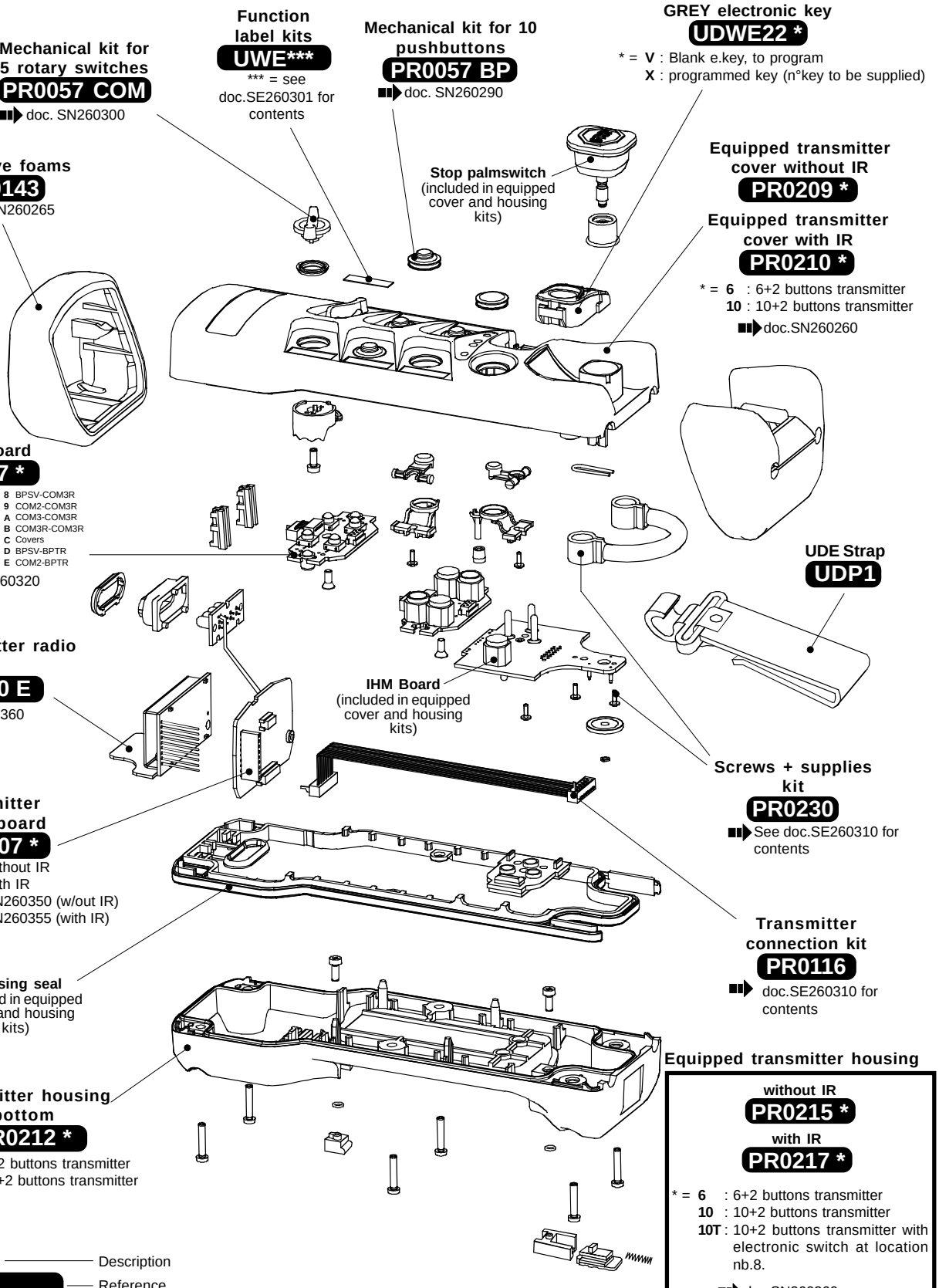
# UDE exploded view for version D001 to D002 included

*Note : The figure below shows a transmitter with 6 function buttons*




**Legend :**

**X** — Description

**Y** — Reference

doc. Z — assembly/disassembly procedure

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Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Exploded view**

**UDE**

**version D001 to D002**

| | |
|---|---|
| Format: | A4 |
| Filename: | SE260206-00-EN.P65 |
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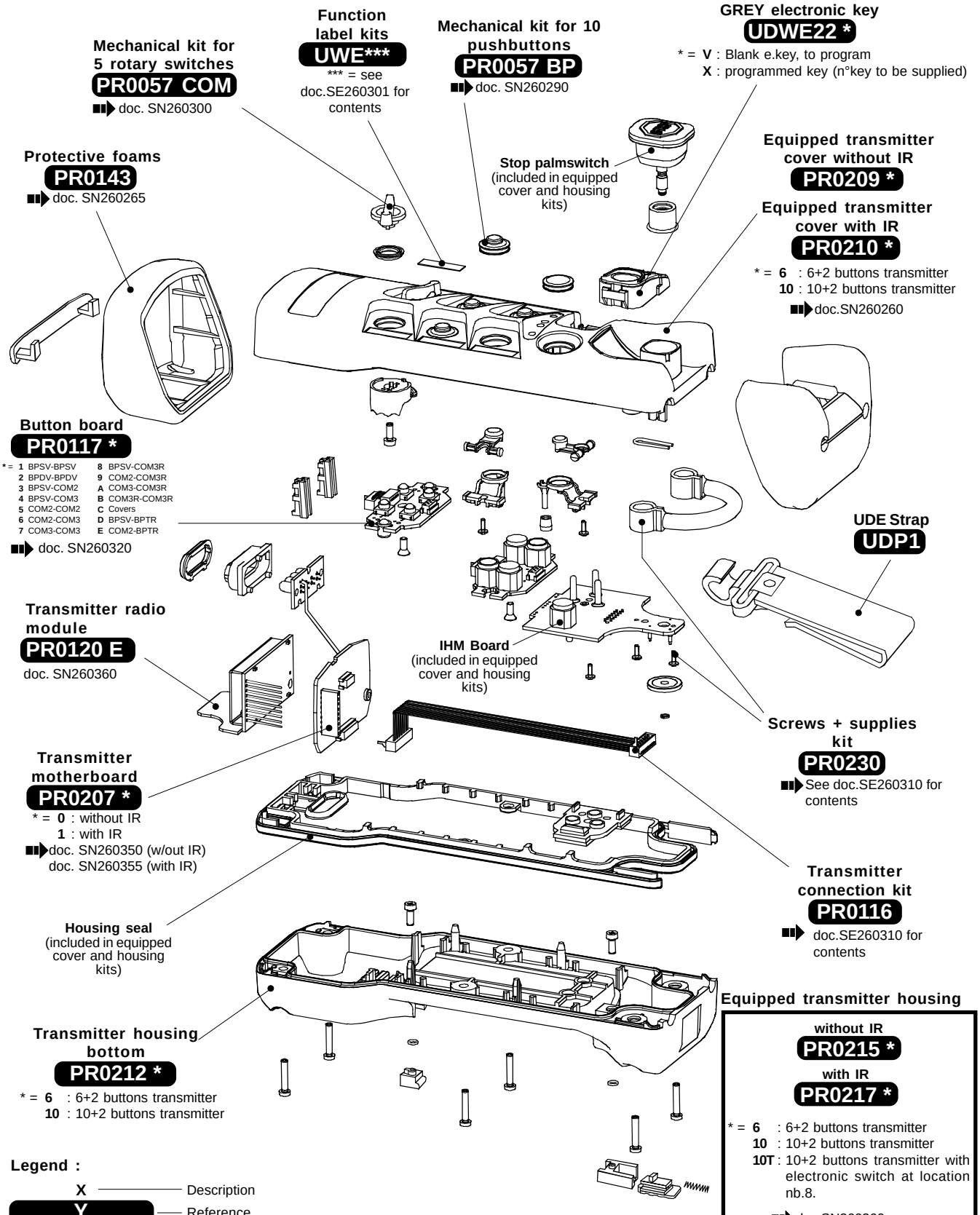
# UDE exploded view for version D003

*Note : The figure below shows a transmitter with 6 function buttons*




**Legend :**

**X** — Description

**Y** — Reference

doc. Z — assembly/disassembly procedure

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Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Exploded view | |
| **UDE** | |
| version D003 | |
| Format: | A4 |
| Filename: | SE260207-00-EN.P65 |
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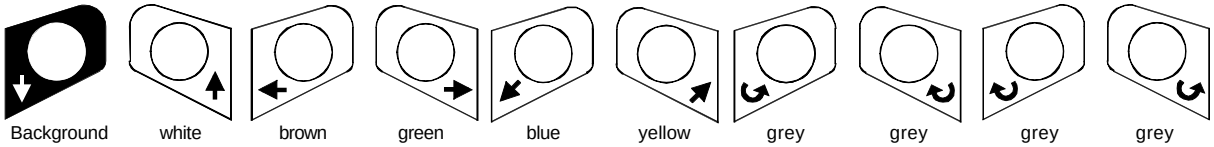
# Label kits for UDE version A001 to C002 included

Caution, these label kits will become obsolescent in the near future and are only valid for transmitters UDE version A001 to C002 included; the housings for these versions have not yet been changed (transition to version D001 and higher)

Reference :

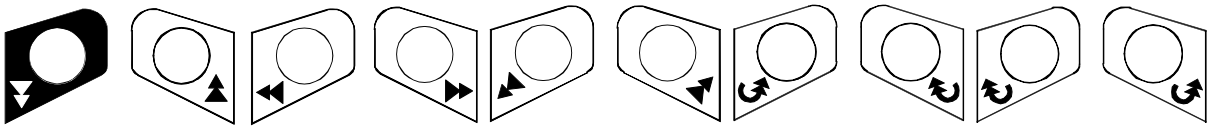
**UDWE10** **Kit comprising 10 colored labels for single speed movement pushbuttons**



Background color : **black** | white | brown | green | blue | yellow | grey | grey | grey | grey

Reference :

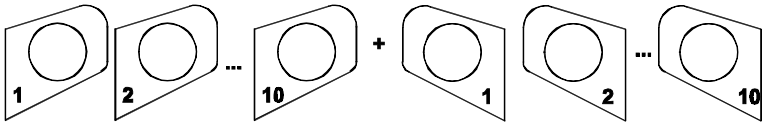
**UDWE11** **Kit comprising 10 colored labels for double speed movement pushbuttons**



Background color : **black** | white | brown | green | blue | yellow | grey | grey | grey | grey

Reference :

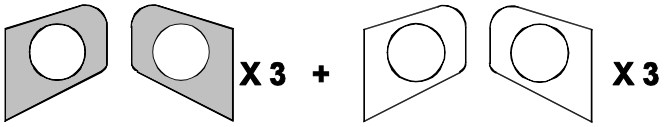
**UDWE12** **Kit comprising 20 b/w labels for pushbuttons «numbering»**




Background color : **grey**

Reference :

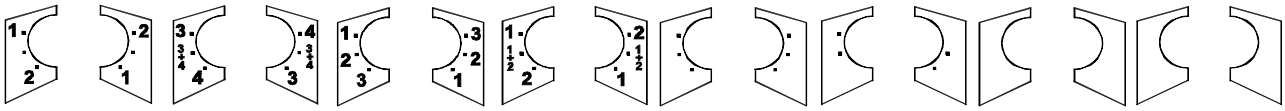
**UDWE13** **Kit comprising 6 grey labels for pushbuttons «customization»**




(6 **grey** marking labels) (6 transparent protection labels)

Reference :

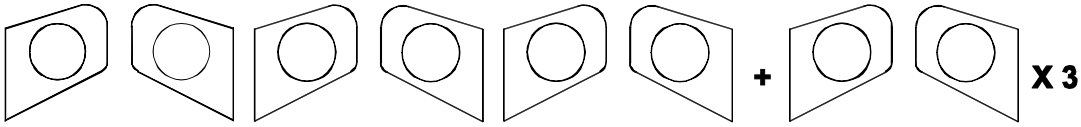
**UDWE14** **Kit comprising 12 b/w labels for rotary switches**



(4 customizable labels) (4 transparent protection labels) Background color : **grey**

Reference :

**UDWE15** **Kit comprising 6 colored labels for pushbuttons «customization»**




white | white | green | brown | yellow | blue (6 transparent protection labels)

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|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | first issue | E.DECHAME | 10.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Label kits **UDE** version A001 to C002 | Format: A4 |
| | Filename: SE260300-00-EN.P65 |
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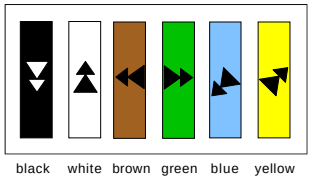
# Label kits for UDE version D001 and higher

**Representation scale : 70%**

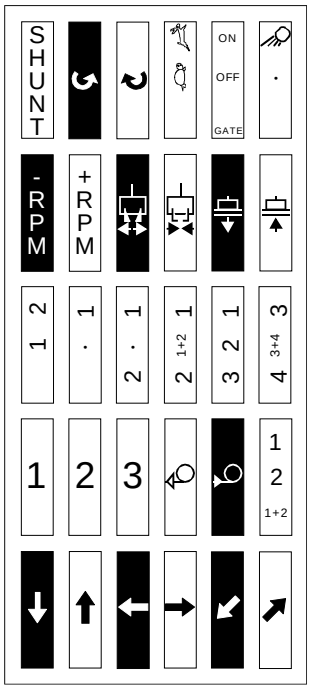
Reference :
**UWE202**

**6 colored labels «movements» for double speed pushbuttons**



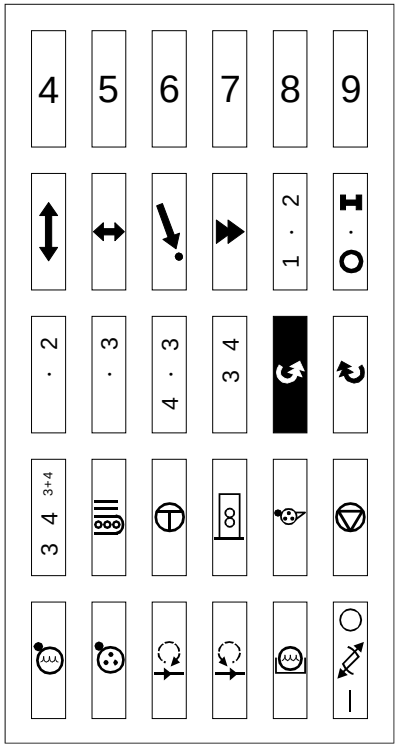

Reference :
**UWE204**

**30 B/W labels «Special functions» *nb.1* for pushbuttons and rotary switches**



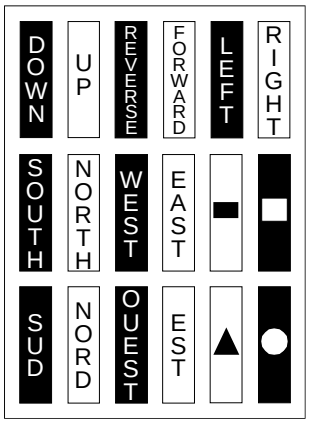

Reference :
**UWE206**

**30 B/W labels «Special functions» *nb.2* for pushbuttons and rotary switches**



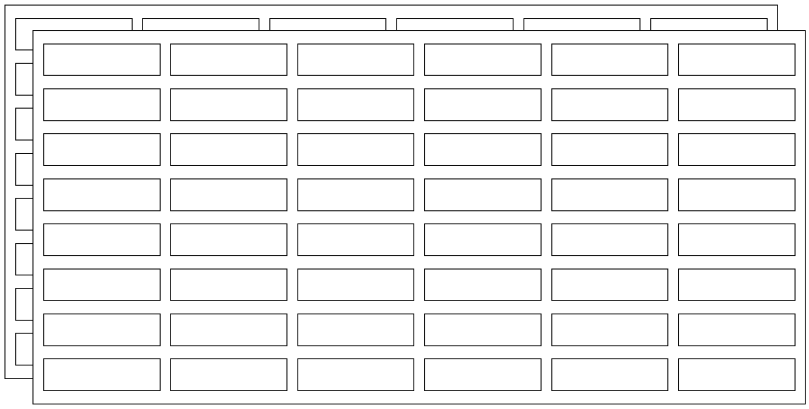

Reference :
**UWE203**

**18 B/W labels «Special movements» for pushbuttons**




Reference :
**UWE205**

**48 white labels «Customization» + 48 transparent protecting labels, can be used with laser printer or marker.**



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| 00 | T 727 | first issue | E.DECHAME | 04.10.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Label kits** **UDE** version D001 and + | **Format:** | A4 | |
| | **Filename:** | SE260301-00-EN.P65 | |
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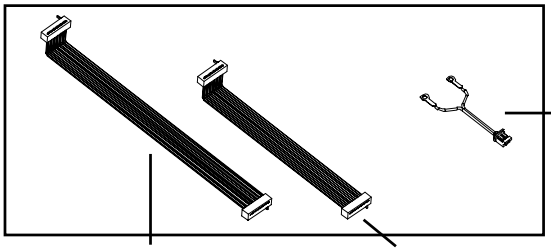
# Screws + supply kits and accessories for UDE transmitter

Reference :

**PR0116** **Transmitter connection kit**



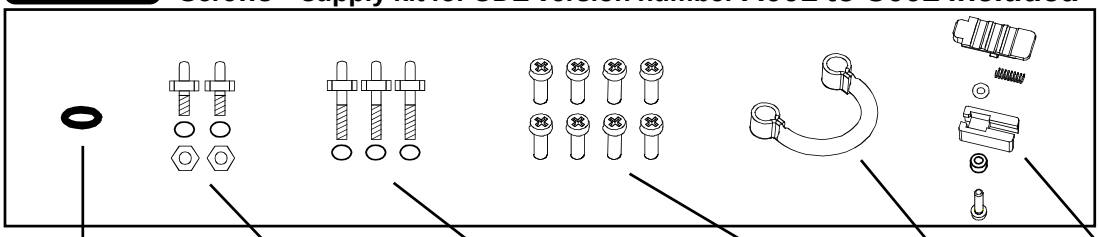
**Power supply connection assembly only for UDE version number A001 to C002 included**

**UDE 10+2 buttons 12-pin ribbon cable**

**UDE 6+2 buttons 12-pin ribbon cable**

Reference :

**PR0141** **Screws + supply kit for UDE version number A001 to C002 included**



**EEPROM memory suring band**

**Power supply contact pins + seals + nuts**

**Electronic key contact pins + seals**

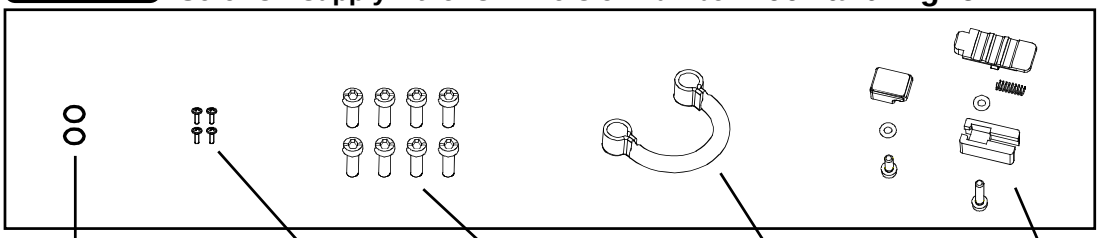
**Transmitter housing screws (N.2 Pozidriv)**

**Transmitter fastening**

**Battery pack spring (mounted on transmitter housing back)**

Reference :

**PR0230** **Screws + supply kit for UDE version number D001 and higher**



**IHM board power supply pins seals**

**Screws for button boards and IHM board**

**Transmitter housing screws (N.10 Torx)**

**Transmitter fastening**

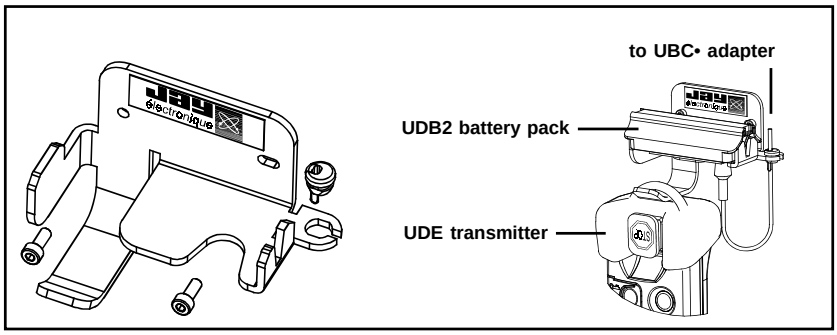
**Battery pack spring (mounted on transmitter housing back)**

Reference :

**UWE102** **Shoulder strap**

Reference :

**UDC1** **Wall support for binding the transmitter on rest and refilling the battery pack**



**to UBC• adapter**

**UDB2 battery pack**

**UDE transmitter**

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| 00 | T 727 | first issue | E.DECHAME | 30.07.04 | Tech: | | Market: | |


Jay électronique

BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Screws + supply kit and accessories**

**UDE**

| | | | |
|---|---|---|---|
| **Format:** | A4 | | |
| **Filename:** | SE260310-00-EN.P65 | | |
| **DOC REF.:** | **SE260310.00** | **Page:** | **1 / 1** |


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# Upgrading the transmitter according UDE version number

☞ **Subsequent to major technical and mechanical changes starting with version No. D001, for any fault observed on a UDE transmitter having a version No. lower than D001, the transmitter must be upgraded.**
The table below indicates the parts to be kept and those to be replaced in accordance with the version No., and the assembly procedures for upgrading the transmitter.

| UDE version number | Part(s) to be kept | Part(s) to be used for the upgrade | | |
|---|---|---|---|---|
| | Description | Description | Reference | Assembly / disassembly procedure |
| **A001 to A010 included** | - Radio module<br>- BPDV function board<br>- Protective foams (if present) | Equipped housing kit | **PR0215 *** **or PR0217 *** | SN260260 |
| | | Motherboard | **PR0207 0** (w/out IR)<br>**PR0207 1** (with IR) | SN260350 (w/out IR)<br>SN260355 (with IR) |
| | | GREY electronic key | **UDWE22 *** | / |
| | | Mechanical pushbutton kit | **PR0057 BP** | SN260290 |
| | | Mechanical rotary switch kit | **PR0057 COM** | SN260300 |
| | | Screws + supply kit | **PR0230** | SE260310 |
| | | Button boards | **PR0117**<br>**1,3,4,5,6,7,8,9,A,B** | SN260320 |
| | | Protective foams (if missing) | **PR0143** | SN260265 |
| | | Labels kit | **UWE ***** | SE260301 |
| **B001 to B010 included** | - Radio module<br>- Button boards<br>- Mechanical pushbutton kit<br>- Mechanical rotary switch kit<br>- Mother board/IHM board ribbon<br>- Protective foams | Equipped housing kit | **PR0215 *** **or PR0217 *** | SN260260 |
| | | Motherboard | **PR0207 0** (w/out IR)<br>**PR0207 1** (with IR) | SN260350 (w/out IR)<br>SN260355 (with IR) |
| | | GREY electronic key | **UDWE22 *** | / |
| | | Labels kit | **UWE ***** | SE260301 |
| **C001 to C002 included** | - Motherboard<br>- Grey electronic key<br>- Radio module<br>- Button boards<br>- Mechanical pushbutton kit<br>- Mechanical rotary switch kit<br>- Mother board/IHM board ribbon<br>- Protective foams<br><br>+ Update the UDE internal software if UDE version is "C001" and UDE is equipped with IR option (follow procedure SN260045) (only in JAY electronique plant) | Equipped housing kit | **PR0215 *** **or PR0217 *** | SN260260 |
| | | Labels kit | **UWE ***** | SE260301 |

⬇ Upgrade

| | | |
|---|---|---|
| **D001** | **date :** 01/2004 to 15/06/2004 | **Updates :** New transmitter housing, new stop palmswitch button, new IHM board |
| **D002** | **date** : 15/06/2004 to 11/10/2004 | **Updates :** Transmitter internal software update authorizing the use of an electronic key with a button configuration different from that physically present on the transmitter<br>(The update D001 > D002 can be realized only in JAY electronique plant) |
| **D003**<br>**Last version number** | **date :** since 11/10/2004 | **Updates :** New protective foams with insert to ensure a strengthened holding of the superior foam. These new protective foams are not nay more "pinched" between the cover and the bottom of the housing.<br>New protective foams can be installed instead of the former protective foams version. |

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update UDE since v.D003 | E.DECHAME | 16.11.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| **Upgrading the transmitter** | **UDE** |
| **Format:** | A4 |
| **Filename:** | SN260230-02-EN.P65 |
| **DOC REF.:** | **SN260230.02** |
| **Page:** | **1 / 1** |


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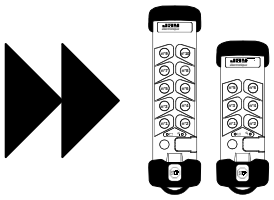
# UDE quick test before intervention



**Additional information**

If the two indicator lights on the transmitter flash regularly, refer to the probable faults table on page 2,3 and 4

***Tools :***

Test UDR
+
Programming tool
**PO1527**
+
"Dialog UD" software
v**5.1** minimum
ref.: **UDWR36**
+
Test blank electronic key
**UDWE22 V**

Test UDF

See technical diagnostic ***SJ260050*** in section "***UDE visual inspection***"

See document ***SN260230***

**START**

Fit a charged battery pack in the back of the UDE

Unlock the stop palmswitch button

Green LED of transmitter comes on steady?

**yes**

**no** → On transmitter, press "on" button

Transmitter green LED flashes?

**no** → (go to ***UDE functional check*** in document SJ260050)

**yes**

Press the stop palmswitch button

Green LED goes off?

**no** → (go to ***UDE sub-assembly test*** in document SJ260050)

**yes**

Program the test key with UDE button configuration, and UDR channel / Identity code

Go to "Test" function in the DialogUD software and switch on the receiver

Unlock the transmitter stop palmswitch button and press the "on" button

Check that radio quality rate = 100%

**no** → (go to ***UDE radio module check*** in document SJ260050)

**yes**

Receiver safety and horn relays pull in ?

**no** → (go to ***UDE radio module check*** in document SJ260050)

**yes**

Actuate one of the function buttons and switches one by one

All actions transmitted ?

**no** → (go to ***UDE button state check*** in document SJ260050)

**yes**

IR startup option present ?

**no** → Press the stop palmswitch button. Visually inspect transmitter, check condition of housing, seal, function buttons and function labels

**yes**

Equip the test receiver with a UDF and program it with the IR startup option

Press the green "on" button while pointing the UDE toward the test receiver (3m min. between UDE and UDF)

Receiver safety and horn relays pull in ?

**no** → (go to **IR startup option test** in document SJ260050)

**yes**

Repeat test at distance of around 20m (range test)

Receiver safety and horn relays pull in ?

**no** → (go to **IR startup option test** in document SJ260050)

**yes**

Press the stop palmswitch button. Visually inspect transmitter, check condition of housing, seal, function buttons and function labels

Perform transmitter upgrade check

**END**

***Key:***

**no** = Refer to various chapters of transmitter technical diagnosis (document SJ260050)

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update since D002 version | E.DECHAME | 29.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Transmitter quick test UDE** | **Format:** | A4 | |
| | **Filename:** | SJ260040-02-EN.P65 | |
| | **DOC REF.:** | **SJ 260040.02** | **Page:** 1 / 4 |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# Transmitter indicator light functions — UDE version A001 to B001 included

## Error messages

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Possible causes of fault** | **Corrective actions** |
|---|---|---|---|---|
| Before or after "ON" button pressed | **OFF** | | - Ribbon cable connecting motherboard to IHM board and to stop palmswitch button is disconnected<br>- Power supply wires disconnected<br>- IHM board faultly<br>- Stop palmswitch button faulty | - Check connection of ribbon cable linking motherboard to IHM board and connection of power supply wires.<br>- Replace stop palmswitch button<br>- Proceed by test IHM board substitution > *proceed an upgrade to D001 version** |
| Before or after "ON" button pressed | **2 flashes** | | - Electronic key absent<br>- Bad electronic key connection<br>- Electronic key faulty | - Check if transmitter needs a key to operate (read key No.). If so, replace key > *proceed an upgrade to D001 version** |
| Before "ON" button pressed | **3 flashes** | | - Error on electronic key number<br>- Electronic key faulty | - Read electronic key No. programmed in transmitter EEPROM memory |
| Before or after "ON" button pressed | **4 flashes** | | - Transmitter locked (flashes during programming attempt)<br>- Button board faulty<br>- Ribbon cable linking last button board to motherboard is disconnected<br>- Ribbon cables linking button boards are disconnected | - Before any programming, start by checking that transmitter is unlocked (see installation manual)<br>- Check connection of all ribbon cables in transmitter. |
| Before "ON" button pressed | **5 flashes** | | - Momentary disconnection of battery pack<br>- Power supply connector of IHM board is faulty<br>- Stop palmswitch button faulty | - Check that battery pack is securely mounted in UDE back. If necessary, replace contact pins.<br>- Check connection of power supply connector to IHM board<br>- Test stop palmswitch button |
| Before "ON" button pressed | **6 flashes** | | - Stop palmswitch button faulty | - Test stop palmswitch button |
| Before "ON" button pressed | **7 flashes** | | - Disconnection of EEPROM memory<br>- Bad contact on EEPROM receptacle<br>- EEPROM memory is faulty | - Check that EEPROM memory is properly placed in its housing and securing band is in place<br>- Tighten EEPROM receptacle contacts |
| Before "ON" button pressed | **8 flashes** | | - Motherboard faulty | - Replace motherboard > *proceed an upgrade to D001 version** |

* = This part has undergone major technical changes; the transmitter must therefore be upgraded accordingly. Refer to instructions in document SN260230.

## Programming modes

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Function or message** |
|---|---|---|---|
| Programming Mode:<br><br>channel No., dead man time, key No. | Flashes according to number of **tens** of parameter configured | Flashes according to number of **units** of parameter configured | indicates tens and units |
| Procedure :<br>locking - unlocking access to programming | ON Steady | OFF | Transmitter is locked |
| Procedure :<br>locking - unlocking access to programming | ON Steady | ON Steady | Transmitter is unlocked |

## Battery pack charge states

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Function or message** |
|---|---|---|---|
| Before "ON" button pressed | OFF | ON Steady | Battery pack charge > 90% |
| Before "ON" button pressed | Flashes SLOW | ON Steady | 90% > Battery pack charge >LOW BATT level |
| Before "ON" button pressed | Flashes FAST | ON Steady | Battery pack charge < or = LOW BATT level |
| After "ON" button pressed | OFF | Flashes | **Radio transmission**<br>Battery pack charge > 90% |
| After "ON" button pressed | Flashes FAST | Flashes | **Radio transmission**<br>Battery pack charge < or = LOW BATT level |

LOW BATT level = battery level low (battery pack charge < 10%)

# Transmitter indicator light functions — UDE version C001 to D001 included

## Error messages

| Transmitter state (trans. Stop plamswitch button is unlocked) | Red indicator light | Green indicator light | Possible causes of fault | Corrective actions |
|---|---|---|---|---|
| Before or after "ON" button pressed | **OFF** | | - Ribbon cable connecting motherboard to IHM board and to stop palmswitch button is disconnected<br>- Power supply wires disconnected<br>- IHM board faultly<br>- Stop palmswitch button pins faulty | - Check connection of ribbon cable linking motherboard to IHM board<br>- Proceed by test motherboard substitution |
| Before or after "ON" button pressed | **Both ON Steady** | | - Electronic key absent<br>- Bad electronic key connection<br>- Electronic key faulty<br>- Motherboard faulty<br>- IHM board faulty | - Check connection of ribbon cable linking motherboard to IHM board<br>- Proceed by test motherboard substitution<br>- Proceed by test elec. key substitution |
| When programming radio channel No, Dead man duration, or ID code copy | **Flash in alternation** | | - Transmitter is locked | - Transmitter is locked', see UD installation manual to unlock the access to programming |
| Before "ON" button pressed | **3 flashes** | | - Error on ID code<br>- Electronic key faulty | - Copy ID code in UDE (see procedure in installation manual)<br>- Proceed by test elec. key substitution |
| Before or after "ON" button pressed | **4 flashes** | | - Button configuration of the electronic key is different than transmitter button configuration<br>- Button board faulty<br>- Ribbon cable linking last button board to motherboard is disconnected<br>- Ribbon cables linking button boards are disconnected | - Check that configuration button is the same between electronic key and transmitter<br>- Check connection of all ribbon cables in transmitter<br>- Proceed by test button boards substitution |
| Before "ON" button pressed | **5 flashes** | | - Momentary disconnection of battery pack<br>- Stop palmswitch button pins faulty<br>- Motherboard faulty | - Check that battery pack is securely mounted in UDE back. If necessary, replace contact pins.<br>- Check stop palmswitch button pins<br>- Proceed by test motherboard substitution |
| Before "ON" button pressed | **6 flashes** | | - Momentary disconnection of battery pack<br>- Stop palmswitch button pins faulty<br>- Motherboard faulty | - Check stop palmswitch button pins<br>- Proceed by test motherboard substitution |
| Before "ON" button pressed | **7 flashes** | | - Electronic key faulty | - Proceed by test elec. key substitution |
| Before "ON" button pressed | **8 flashes** | | - Motherboard faulty | - Proceed by test motherboard substitution |

## Programming modes

| Transmitter state (trans. Stop plamswitch button is unlocked) | Red indicator light | Green indicator light | Function or message |
|---|---|---|---|
| Programming Mode:<br><br>channel No., dead man time, key No. | Flashes according to number of **tens** of parameter configured | Flashes according to number of **units** of parameter configured | indicates tens and units |
| Procedure : locking - unlocking access to programming | ON Steady | OFF | Transmitter is locked |
| Procedure : locking - unlocking access to programming | ON Steady | ON Steady | Transmitter is unlocked |

## Battery pack charge states

| Transmitter state (trans. Stop plamswitch button is unlocked) | Red indicator light | Green indicator light | Function or message |
|---|---|---|---|
| Before "ON" button pressed | OFF | ON Steady | Battery pack charge > 90% |
| Before "ON" button pressed | Flashes SLOW | ON Steady | 90% > Battery pack charge >LOW BATT level |
| Before "ON" button pressed | Flashes FAST | ON Steady | Battery pack charge < or = LOW BATT level |
| After "ON" button pressed | OFF | Flashes | **Radio transmission**<br>Battery pack charge > 90% |
| After "ON" button pressed | Flashes FAST | Flashes | **Radio transmission**<br>Battery pack charge < or = LOW BATT level |

LOW BATT level = battery level low (battery pack charge < 10%)

# Transmitter indicator light functions — UDE version D002 and higher

## Error messages

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Possible causes of fault** | **Corrective actions** |
|---|---|---|---|---|
| Before or after "ON" button pressed | **OFF** | | - Ribbon cable connecting motherboard to IHM board and to stop palmswitch button is disconnected<br>- Power supply wires disconnected<br>- IHM board faultly<br>- Stop palmswitch button pins faulty | - Check connection of ribbon cable linking motherboard to IHM board<br>- Proceed by test motherboard substitution |
| Before or after "ON" button pressed | **Both ON Steady** | | - Electronic key absent<br>- Bad electronic key connection<br>- Electronic key faulty<br>- Motherboard faulty<br>- IHM board faulty | - Check connection of ribbon cable linking motherboard to IHM board<br>- Proceed by test motherboard substitution<br>- Proceed by test elec. key substitution |
| When programming radio channel No, Dead man duration, or ID code copy | **Flash in alternation** | | - Transmitter is locked | - Transmitter is locked', see UD installation manual to unlock the access to programming |
| Before "ON" button pressed | **3 flashes** | | - Error on ID code<br>- Electronic key faulty | - Copy ID code in UDE (see procedure in installation manual)<br>- Proceed by test elec. key substitution |
| Before or after "ON" button pressed | **4 flashes** | | - Button board faulty<br>- Ribbon cable linking last button board to motherboard is disconnected<br>- Ribbon cables linking button boards are disconnected | - Check connection of all ribbon cables in transmitter<br>- Proceed by test button boards substitution |
| Before "ON" button pressed | **5 flashes** | | - Momentary disconnection of battery pack<br>- Stop palmswitch button pins faulty<br>- Motherboard faulty | - Check that battery pack is securely mounted in UDE back. If necessary, replace contact pins.<br>- Check stop palmswitch button pins<br>- Proceed by test motherboard substitution |
| Before "ON" button pressed | **6 flashes** | | - Momentary disconnection of battery pack<br>- Stop palmswitch button pins faulty<br>- Motherboard faulty | - Check stop palmswitch button pins<br>- Proceed by test motherboard substitution |
| Before "ON" button pressed | **7 flashes** | | - Electronic key faulty | - Proceed by test elec. key substitution |
| Before "ON" button pressed | **8 flashes** | | - Motherboard faulty | - Proceed by test motherboard substitution |

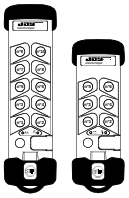
## Programming modes

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Function or message** |
|---|---|---|---|
| Programming Mode:<br><br>channel No., dead man time, key No. | Flashes according to number of **tens** of parameter configured | Flashes according to number of **units** of parameter configured | indicates tens and units |
| Procedure :<br>locking - unlocking access to programming | ON Steady | OFF | Transmitter is locked |
| Procedure :<br>locking - unlocking access to programming | ON Steady | ON Steady | Transmitter is unlocked |

## Battery pack charge states

| **Transmitter state** (trans. Stop plamswitch button is unlocked) | **Red indicator light** | **Green indicator light** | **Function or message** |
|---|---|---|---|
| Before "ON" button pressed | OFF | ON Steady | Battery pack charge > 90% |
| Before "ON" button pressed | Flashes SLOW | ON Steady | 90% > Battery pack charge >LOW BATT level |
| Before "ON" button pressed | Flashes FAST | ON Steady | Battery pack charge < or = LOW BATT level |
| After "ON" button pressed | OFF | Flashes | **Radio transmission**<br>Battery pack charge > 90% |
| After "ON" button pressed | Flashes FAST | Flashes | **Radio transmission**<br>Battery pack charge < or = LOW BATT level |

LOW BATT level = battery level low (battery pack charge < 10%)



# UDE Technical diagnosis

**PRODUCT INTERVENTION SHEET TO BE COMPLETED**

sub-assy to be replaced

| Tool | Additional information | | |
|---|---|---|---|
| | | **Start** | |
| dialogUD software **v5.1** minimum **UDWR36** + Programming tool PO1527 | | - On the intervention sheet, write down the UDE reference<br>- Read electronic parameters and following data (with DialogUD software and programming tool PO1527) :<br>- radio channel<br>- ID code<br>- "Dead man" function duration | |
| | | **Visual inspection of UDE** | |
| n°10 Torx or n°2 posidriv screwdriver | | Open the transmitter and separate the half-shells. | |
| dialogUD software **v5.1** minimum **UDWR36** + Programming tool PO1527 | See Upgrading UDE ***SN260230*** **+** Updating UDE internal soft. (only for JAY electronique plant) ***SN260235*** | - Check the UDE version according exploded views (doc.SE260201 to SE260206)<br>- Check UDE internal software if C001 version (only for JAY electronique plant) | |
| | | Transmitter complies with respect to technical changes table ? | no → ****** Spare part or accessory for technical upgrade + internal software update (fault code **X99**) |
| | | yes | |
| | | Check for absence of grime or cracks on the half-shells | |
| n°10 Torx or n°2 posidriv screwdriver | see housing replacement procedure ***SN260260*** | Housing in good condition ? | no → ***PR0212 6/10*** Housing bottom or ***PR0209 6/10*** ***(no IR)*** ***PR0210 6/10*** ***(IR)*** equipped cover or ***PR0215 6/10/10T*** ***(no IR)*** ***PR0217 6/10/10T*** ***(IR)*** equipped housing (P.M) |
| | | yes | |
| n°10 Torx or n°2 posidriv screwdriver | see procedure ***SN260265*** | Protective foams in good condition ? | no → ***PR0143*** protective foams (P.M) |
| | | yes | |
| n°10 Torx or n°2 posidriv screwdriver | see procedure ***SN260260*** | Housing seal in good condition ? | no → ***PR0209 6/10*** *(no IR)* ***PR0210 6/10*** *(IR)* equipped cover (P.M) |
| | | yes | |
| | | ***Visual inspection of electronic key :*** Check condition of key; check that key is securely engaged in transmitter cover | |
| | | Electronic key in good condition ? | no → ***UDWE22 V/X*** electronic key |
| | | yes | |
| | | Continued on page 2 | |

**Symbols :**
→▶**:** Continue diagnosis
—■**:** Stop diagnosis
P.M. **:** Preventive maintenance

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update since UDE vC001 and DialogUD v5.1 | E.DECHAME | 04.10.04 | Tech: | | Market: | |
| Jay électronique<br>BP5 - 176, rue Lavoisier<br>MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX<br>Tél: +33.(0)4.76.41.44.00<br>Fax: +33.(0)4.76.41.44.44 | | **Transmitter technical diagnostic UDE** | **Format:** | A4 | | | | |
| | | | **Filename:** | SJ260050-02-EN.P65 | | | | |
| | | | **DOC REF.:** | **SJ 260050.02** | **Page:** | **1 / 8** | | |

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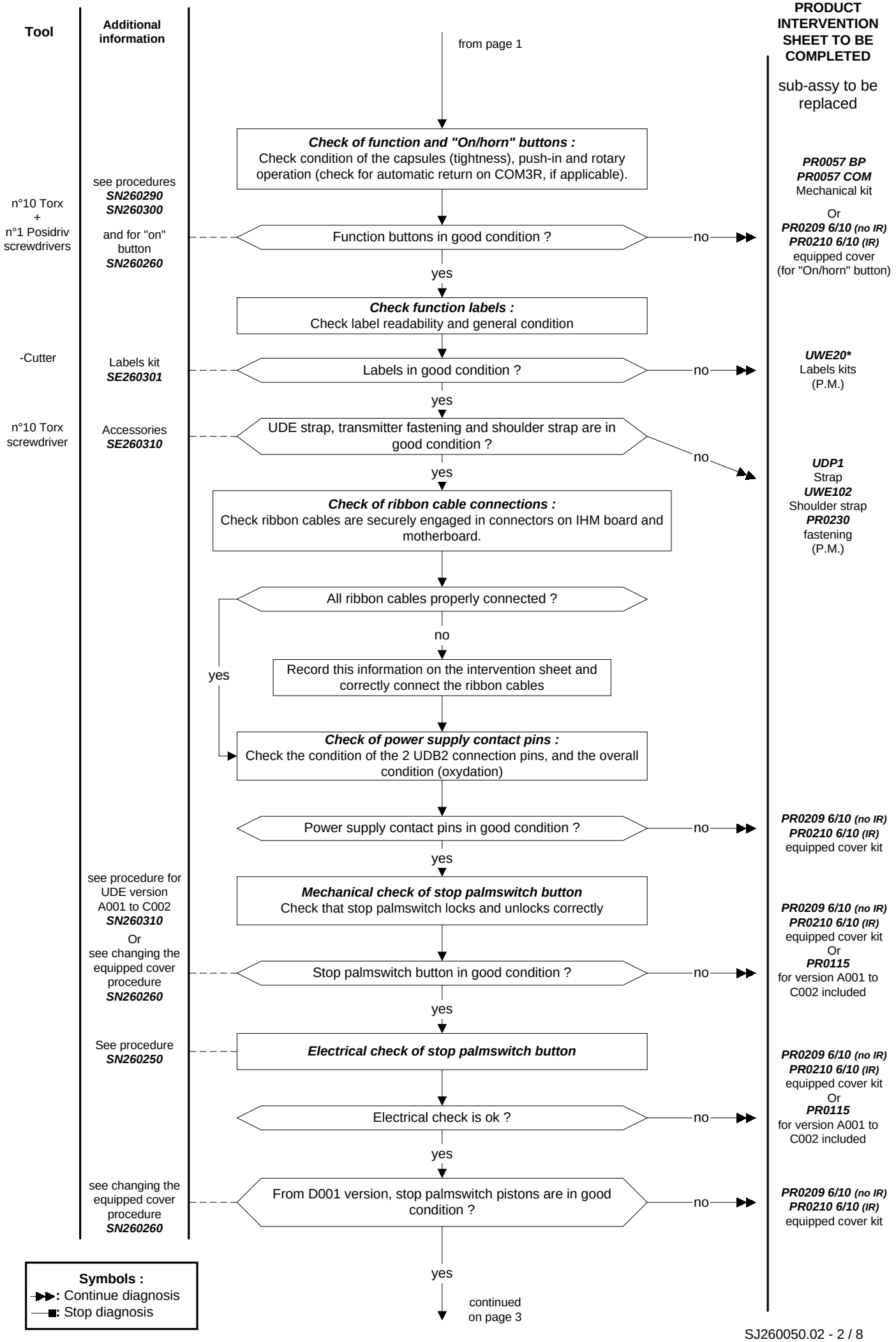
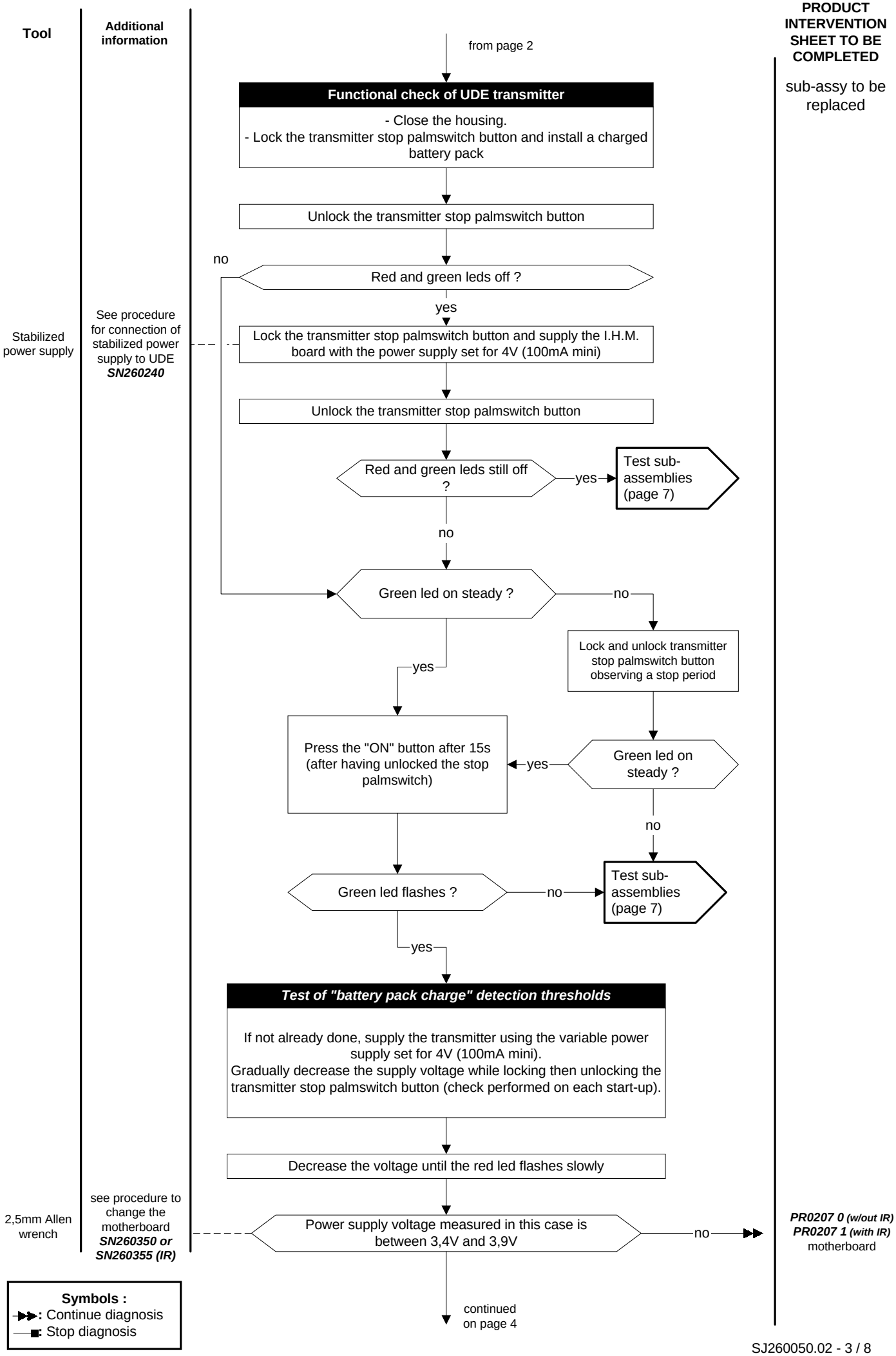
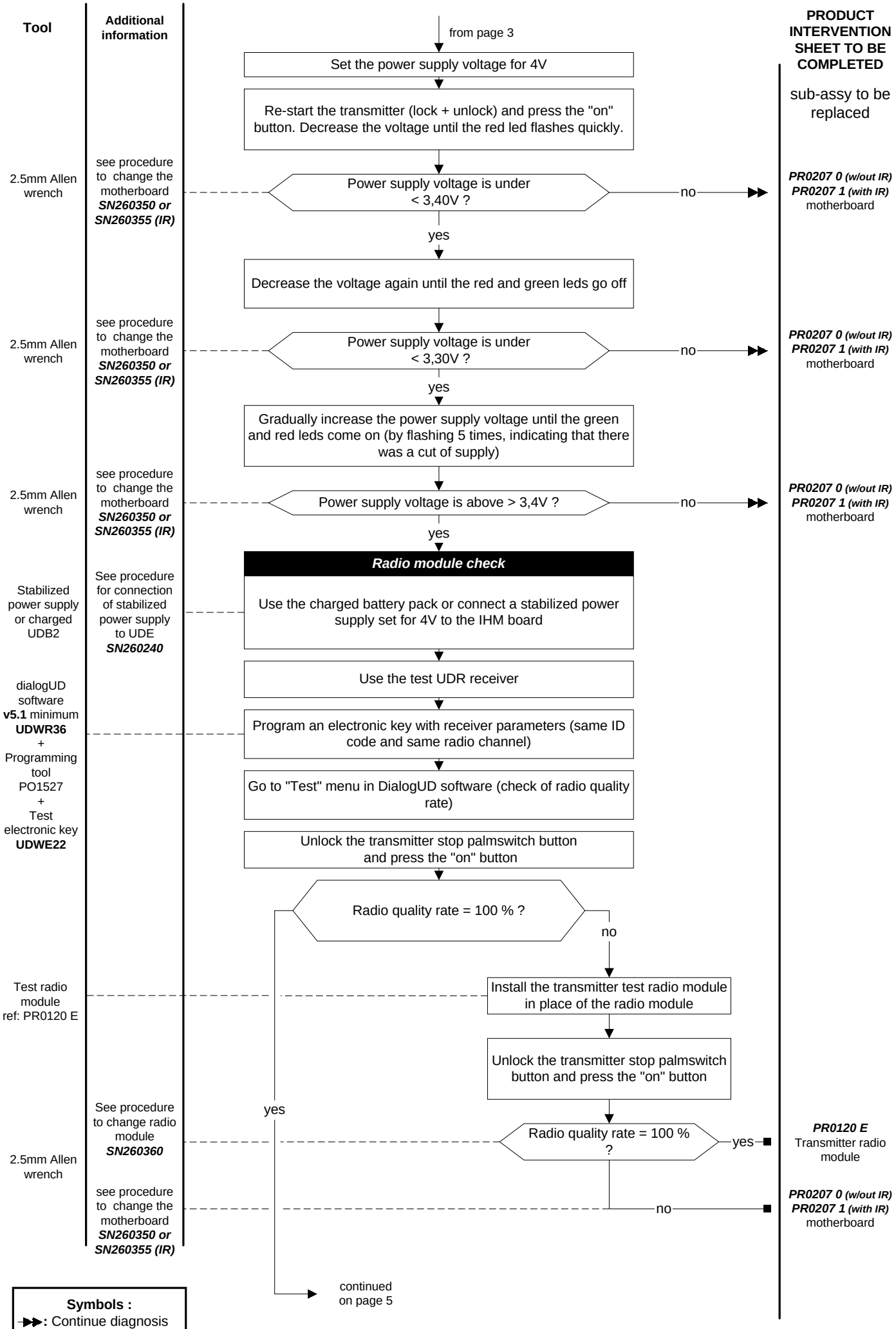
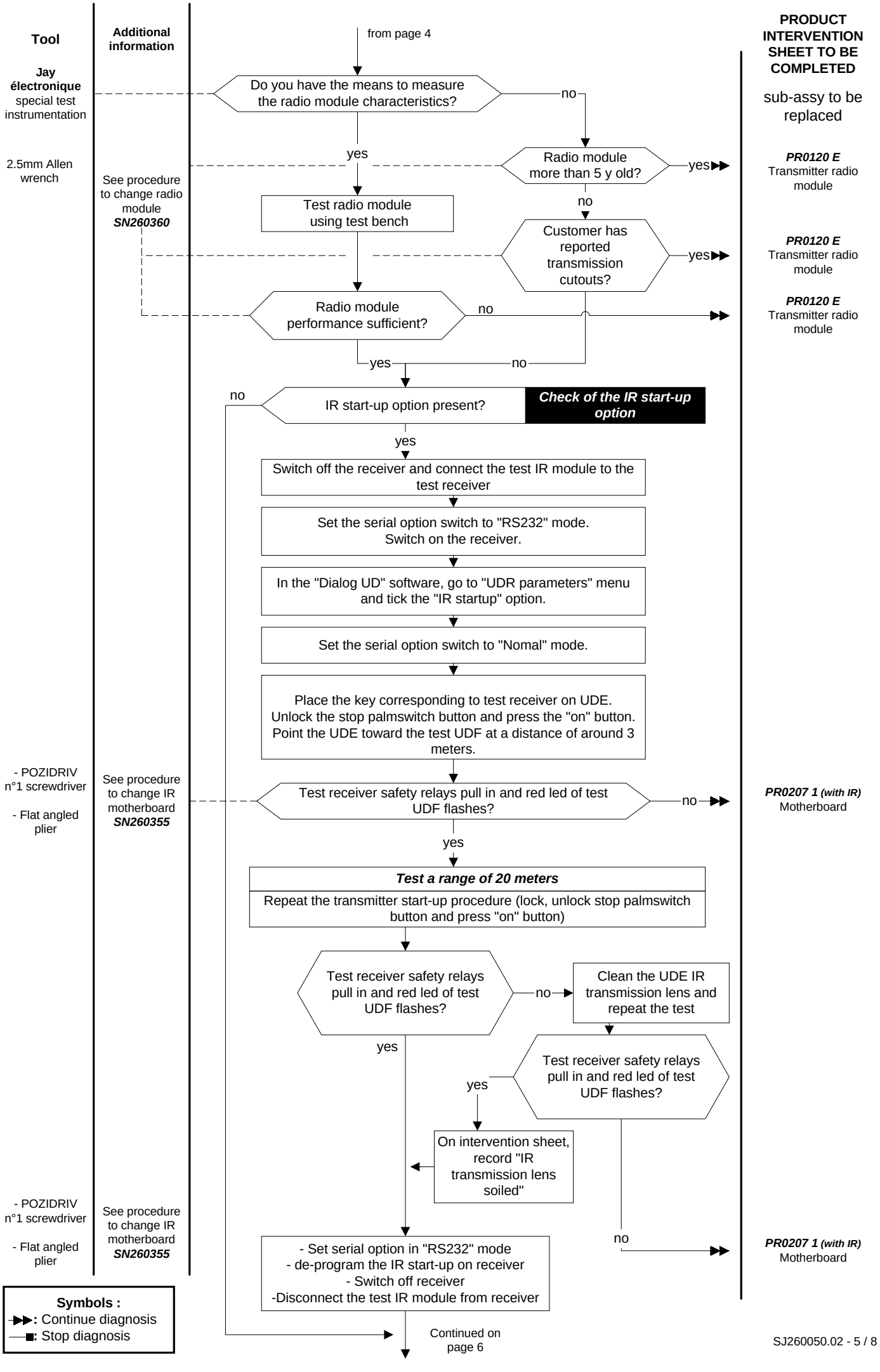
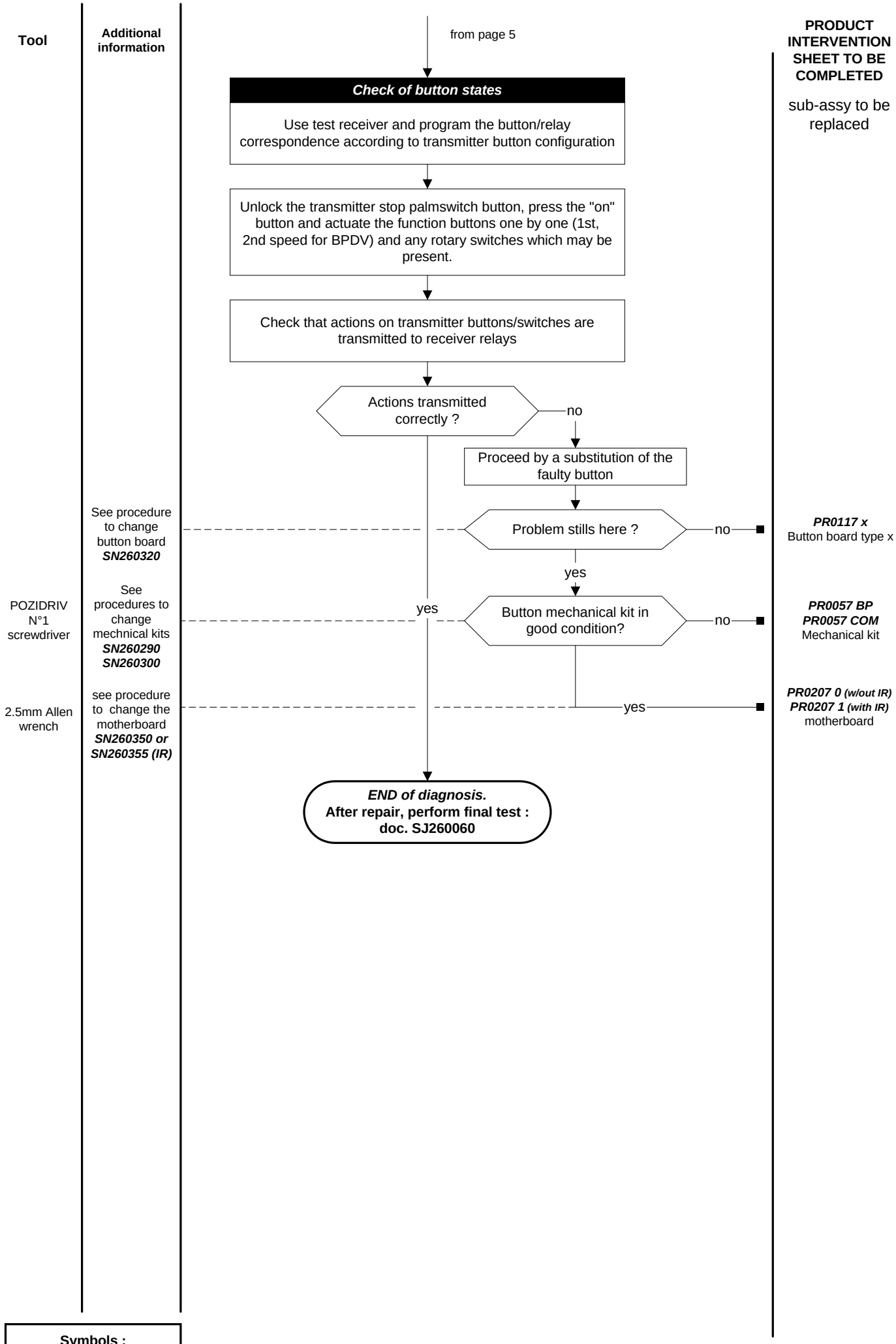
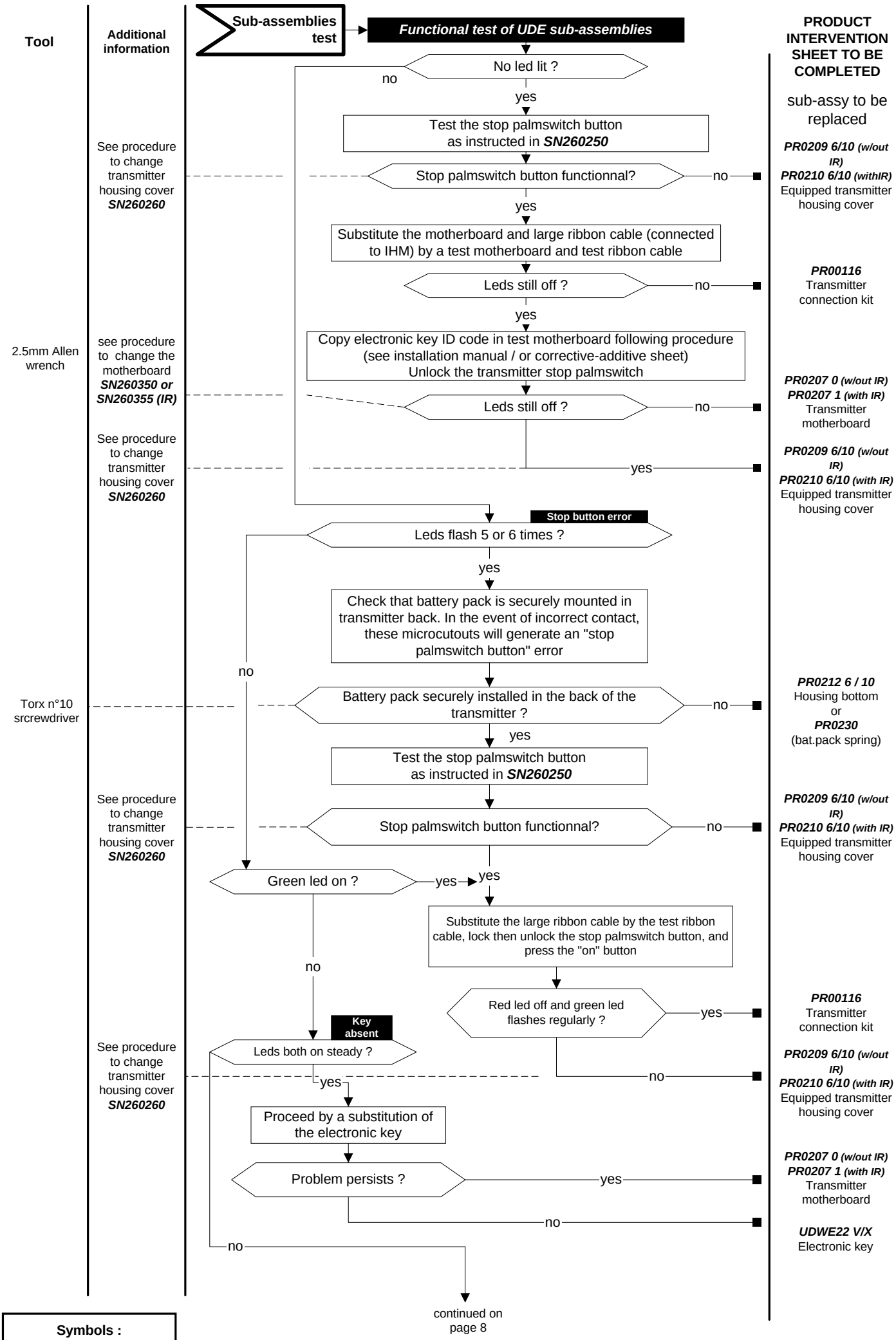

Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
from page 1
Check of function and "On/horn" buttons :
Check condition of the capsules (tightness), push-in and rotary operation (check for automatic return on COM3R, if applicable).
see procedures SN260290 SN260300
n°10 Torx + n°1 Posidriv screwdrivers
and for "on" button SN260260
Function buttons in good condition ?
no
PR0057 BP PR0057 COM Mechanical kit
Or
PR0209 6/10 (no IR) PR0210 6/10 (IR) equipped cover (for "On/horn" button)
yes
Check function labels :
Check label readability and general condition
-Cutter
Labels kit SE260301
Labels in good condition ?
no
UWE20* Labels kits (P.M.)
yes
n°10 Torx screwdriver
Accessories SE260310
UDE strap, transmitter fastening and shoulder strap are in good condition ?
no
yes
UDP1 Strap
UWE102 Shoulder strap
PR0230 fastening (P.M.)
Check of ribbon cable connections :
Check ribbon cables are securely engaged in connectors on IHM board and motherboard.
All ribbon cables properly connected ?
no
yes
Record this information on the intervention sheet and correctly connect the ribbon cables
Check of power supply contact pins :
Check the condition of the 2 UDB2 connection pins, and the overall condition (oxydation)
Power supply contact pins in good condition ?
no
PR0209 6/10 (no IR) PR0210 6/10 (IR) equipped cover kit
yes
see procedure for UDE version A001 to C002 SN260310
Mechanical check of stop palmswitch button
Check that stop palmswitch locks and unlocks correctly
PR0209 6/10 (no IR) PR0210 6/10 (IR) equipped cover kit Or PR0115 for version A001 to C002 included
Or
see changing the equipped cover procedure SN260260
Stop palmswitch button in good condition ?
no
yes
See procedure SN260250
Electrical check of stop palmswitch button
PR0209 6/10 (no IR) PR0210 6/10 (IR) equipped cover kit Or PR0115 for version A001 to C002 included
Electrical check is ok ?
no
yes
see changing the equipped cover procedure SN260260
From D001 version, stop palmswitch pistons are in good condition ?
no
PR0209 6/10 (no IR) PR0210 6/10 (IR) equipped cover kit
yes
continued on page 3
Symbols :
: Continue diagnosis
: Stop diagnosis

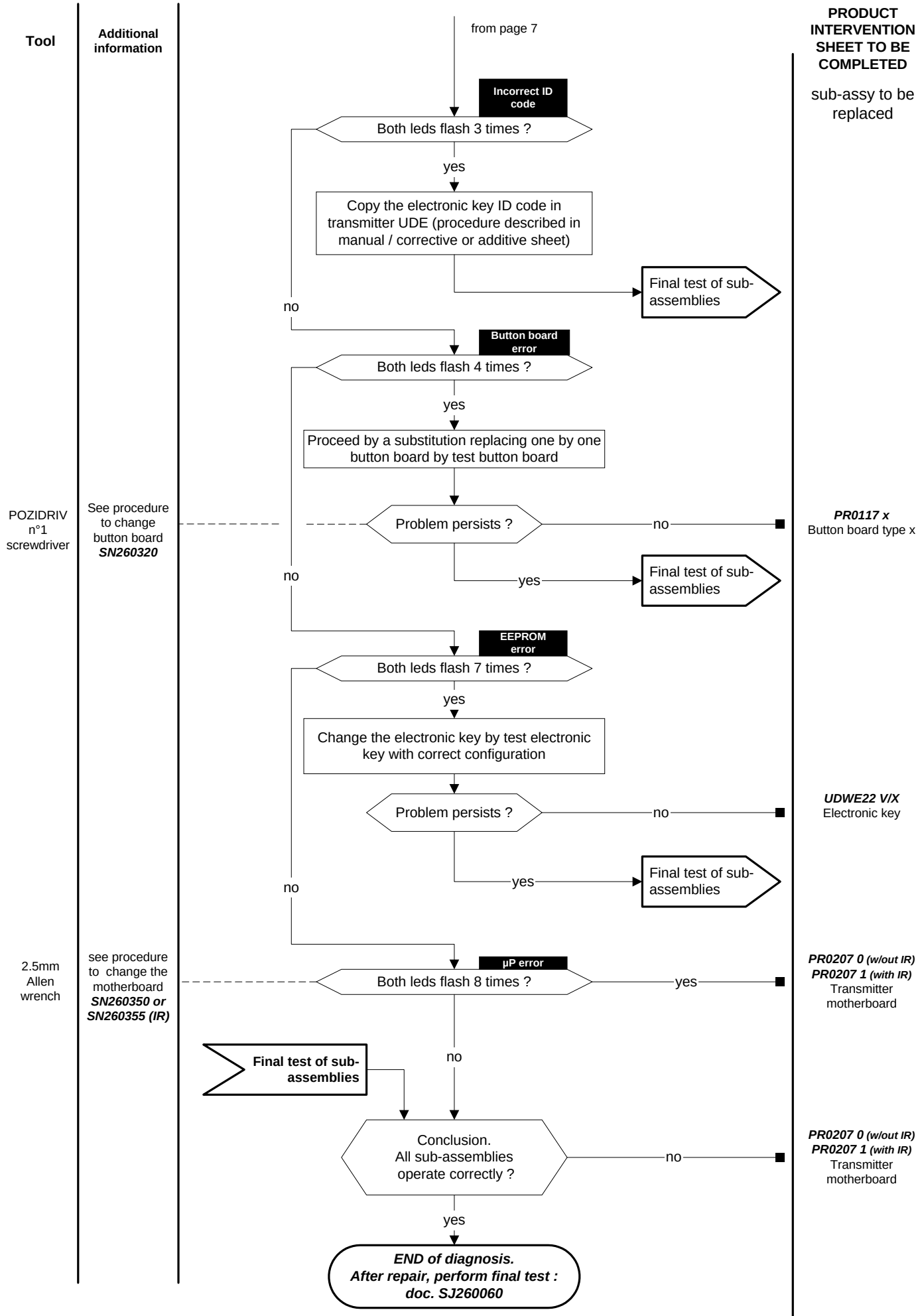

Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
from page 2
Functional check of UDE transmitter
- Close the housing.
- Lock the transmitter stop palmswitch button and install a charged battery pack
Unlock the transmitter stop palmswitch button
no
Red and green leds off ?
yes
Stabilized power supply
See procedure for connection of stabilized power supply to UDE SN260240
Lock the transmitter stop palmswitch button and supply the I.H.M. board with the power supply set for 4V (100mA mini)
Unlock the transmitter stop palmswitch button
Red and green leds still off ?
yes
Test sub-assemblies (page 7)
no
Green led on steady ?
no
Lock and unlock transmitter stop palmswitch button observing a stop period
yes
Press the "ON" button after 15s (after having unlocked the stop palmswitch)
yes
Green led on steady ?
no
Green led flashes ?
no
Test sub-assemblies (page 7)
yes
Test of "battery pack charge" detection thresholds
If not already done, supply the transmitter using the variable power supply set for 4V (100mA mini).
Gradually decrease the supply voltage while locking then unlocking the transmitter stop palmswitch button (check performed on each start-up).
Decrease the voltage until the red led flashes slowly
2,5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
Power supply voltage measured in this case is between 3,4V and 3,9V
no
PR0207 0 (w/out IR)
PR0207 1 (with IR)
motherboard
continued on page 4
Symbols :
: Continue diagnosis
: Stop diagnosis


Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
from page 3
Set the power supply voltage for 4V
Re-start the transmitter (lock + unlock) and press the "on" button. Decrease the voltage until the red led flashes quickly.
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
Power supply voltage is under < 3,40V ?
no
PR0207 0 (w/out IR) PR0207 1 (with IR) motherboard
yes
Decrease the voltage again until the red and green leds go off
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
Power supply voltage is under < 3,30V ?
no
PR0207 0 (w/out IR) PR0207 1 (with IR) motherboard
yes
Gradually increase the power supply voltage until the green and red leds come on (by flashing 5 times, indicating that there was a cut of supply)
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
Power supply voltage is above > 3,4V ?
no
PR0207 0 (w/out IR) PR0207 1 (with IR) motherboard
yes
Radio module check
Stabilized power supply or charged UDB2
See procedure for connection of stabilized power supply to UDE SN260240
Use the charged battery pack or connect a stabilized power supply set for 4V to the IHM board
Use the test UDR receiver
dialogUD software v5.1 minimum UDWR36 + Programming tool PO1527 + Test electronic key UDWE22
Program an electronic key with receiver parameters (same ID code and same radio channel)
Go to "Test" menu in DialogUD software (check of radio quality rate)
Unlock the transmitter stop palmswitch button and press the "on" button
Radio quality rate = 100 % ?
no
Test radio module ref: PR0120 E
Install the transmitter test radio module in place of the radio module
Unlock the transmitter stop palmswitch button and press the "on" button
yes
See procedure to change radio module SN260360
Radio quality rate = 100 % ?
yes
PR0120 E Transmitter radio module
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
no
PR0207 0 (w/out IR) PR0207 1 (with IR) motherboard
continued on page 5
Symbols :
: Continue diagnosis
: Stop diagnosis

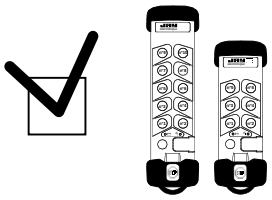

Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
from page 4
Jay électronique special test instrumentation
Do you have the means to measure the radio module characteristics?
no
yes
sub-assy to be replaced
2.5mm Allen wrench
Radio module more than 5 y old?
yes
PR0120 E Transmitter radio module
See procedure to change radio module SN260360
Test radio module using test bench
no
Customer has reported transmission cutouts?
yes
PR0120 E Transmitter radio module
Radio module performance sufficient?
no
PR0120 E Transmitter radio module
yes
no
no
IR start-up option present?
Check of the IR start-up option
yes
Switch off the receiver and connect the test IR module to the test receiver
Set the serial option switch to "RS232" mode.
Switch on the receiver.
In the "Dialog UD" software, go to "UDR parameters" menu and tick the "IR startup" option.
Set the serial option switch to "Nomal" mode.
Place the key corresponding to test receiver on UDE.
Unlock the stop palmswitch button and press the "on" button.
Point the UDE toward the test UDF at a distance of around 3 meters.
- POZIDRIV n°1 screwdriver
- Flat angled plier
See procedure to change IR motherboard SN260355
Test receiver safety relays pull in and red led of test UDF flashes?
no
PR0207 1 (with IR) Motherboard
yes
Test a range of 20 meters
Repeat the transmitter start-up procedure (lock, unlock stop palmswitch button and press "on" button)
Test receiver safety relays pull in and red led of test UDF flashes?
no
Clean the UDE IR transmission lens and repeat the test
yes
Test receiver safety relays pull in and red led of test UDF flashes?
yes
On intervention sheet, record "IR transmission lens soiled"
- POZIDRIV n°1 screwdriver
- Flat angled plier
See procedure to change IR motherboard SN260355
no
PR0207 1 (with IR) Motherboard
- Set serial option in "RS232" mode
- de-program the IR start-up on receiver
- Switch off receiver
-Disconnect the test IR module from receiver
Symbols :
▶▶: Continue diagnosis
■: Stop diagnosis
Continued on page 6


Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
from page 5
Check of button states
Use test receiver and program the button/relay correspondence according to transmitter button configuration
Unlock the transmitter stop palmswitch button, press the "on" button and actuate the function buttons one by one (1st, 2nd speed for BPDV) and any rotary switches which may be present.
Check that actions on transmitter buttons/switches are transmitted to receiver relays
Actions transmitted correctly ?
no
Proceed by a substitution of the faulty button
See procedure to change button board SN260320
Problem stills here ?
no
PR0117 x
Button board type x
yes
POZIDRIV N°1 screwdriver
See procedures to change mechnical kits SN260290 SN260300
yes
Button mechanical kit in good condition?
no
PR0057 BP
PR0057 COM
Mechanical kit
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
yes
PR0207 0 (w/out IR)
PR0207 1 (with IR)
motherboard
END of diagnosis.
After repair, perform final test :
doc. SJ260060
Symbols :
: Continue diagnosis
: Stop diagnosis


Tool
Additional information
Sub-assemblies test
Functional test of UDE sub-assemblies
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
No led lit ?
no
yes
Test the stop palmswitch button as instructed in SN260250
See procedure to change transmitter housing cover SN260260
Stop palmswitch button functionnal?
no
PR0209 6/10 (w/out IR)
PR0210 6/10 (withIR)
Equipped transmitter housing cover
yes
Substitute the motherboard and large ribbon cable (connected to IHM) by a test motherboard and test ribbon cable
Leds still off ?
no
PR00116
Transmitter connection kit
yes
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
Copy electronic key ID code in test motherboard following procedure (see installation manual / or corrective-additive sheet)
Unlock the transmitter stop palmswitch
Leds still off ?
no
PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard
See procedure to change transmitter housing cover SN260260
yes
PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover
Stop button error
Leds flash 5 or 6 times ?
yes
Check that battery pack is securely mounted in transmitter back. In the event of incorrect contact, these microcutouts will generate an "stop palmswitch button" error
no
Torx n°10 srcrewdriver
Battery pack securely installed in the back of the transmitter ?
no
PR0212 6 / 10
Housing bottom
or
PR0230
(bat.pack spring)
yes
Test the stop palmswitch button as instructed in SN260250
See procedure to change transmitter housing cover SN260260
Stop palmswitch button functionnal?
no
PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover
Green led on ?
yes
yes
Substitute the large ribbon cable by the test ribbon cable, lock then unlock the stop palmswitch button, and press the "on" button
no
Red led off and green led flashes regularly ?
yes
PR00116
Transmitter connection kit
Key absent
See procedure to change transmitter housing cover SN260260
Leds both on steady ?
no
PR0209 6/10 (w/out IR)
PR0210 6/10 (with IR)
Equipped transmitter housing cover
yes
Proceed by a substitution of the electronic key
Problem persists ?
yes
PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard
no
UDWE22 V/X
Electronic key
no
continued on page 8
Symbols :
▶▶: Continue diagnosis
—■: Stop diagnosis


Tool
Additional information
PRODUCT INTERVENTION SHEET TO BE COMPLETED
sub-assy to be replaced
from page 7
Incorrect ID code
Both leds flash 3 times ?
yes
Copy the electronic key ID code in transmitter UDE (procedure described in manual / corrective or additive sheet)
Final test of sub-assemblies
no
Button board error
Both leds flash 4 times ?
yes
Proceed by a substitution replacing one by one button board by test button board
POZIDRIV n°1 screwdriver
See procedure to change button board SN260320
Problem persists ?
no
PR0117 x
Button board type x
yes
Final test of sub-assemblies
no
EEPROM error
Both leds flash 7 times ?
yes
Change the electronic key by test electronic key with correct configuration
Problem persists ?
no
UDWE22 V/X
Electronic key
yes
Final test of sub-assemblies
no
2.5mm Allen wrench
see procedure to change the motherboard SN260350 or SN260355 (IR)
µP error
Both leds flash 8 times ?
yes
PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard
Final test of sub-assemblies
no
Conclusion.
All sub-assemblies operate correctly ?
no
PR0207 0 (w/out IR)
PR0207 1 (with IR)
Transmitter motherboard
yes
END of diagnosis.
After repair, perform final test : doc. SJ260060
Symbols :
: Continue diagnosis
: Stop diagnosis

# UDE final test after intervention



**Additional information**

***Tools:***

test UDR receiver
+
test electronic key
(programmed with soft. DialogUD and programming tool PO1527)

Test IR module

(UDR must to be programmed with IR start-up option with soft. DialogUD and programming tool PO1527)

See document ***SN260380***

**START**

Install a charged battery pack in the UDE back

Unlock the stop palmswitch button

Transmitter green led comes on steady? — **no** → (go to ***UDE functional check*** in document SJ260050)

**yes**

Press transmitter "on" button

Transmitter green led flashes? — **no** → (go to ***UDE functional check*** in document SJ260050)

**yes**

Press transmitter stop palmswitch button

Green led goes off? — **no** → (go to ***UDE sub-assembly test*** in document SJ260050)

**yes**

Test electronic key must be programmed with test UDR receiver parameters and placed in transmitter UDE housing.

Switch on test receiver

Go to "Test" menu in DialogUD software.
Unlock stop palmswitch button and press "on" button

Radio quality rate = 100 % ? — **no** → (go to ***UDE radio module check*** in document SJ260050)

**yes**

Safety and horn relays pull in when transmitter "on" button is pressed? — **no** → (go to ***UDE radio module check*** in document SJ260050)

**yes**

Actuate the function buttons or switches one by one

All actions transmitted? — **no** → (go to ***Button state check*** in document SJ260050)

**yes**

IR start-up option present ? — **no** → Press the stop palmswitch button

**yes**

Equip the test receiver with a UDF and program it as follows:
IR start-up option

Press green "on" button while pointing the UDE toward the test receiver (3m min. distance between UDE and UDF)

Receiver safety and horn relays pull in ? — **no** → (go to ***IR start-up test*** in document SJ260050)

**yes**

Repeat the test at a distance of around 20 m (range test)

Receiver safety and horn relays pull in ? — **no** → (go to ***IR start-up test*** in document SJ260050)

**yes**

Press the stop palmswitch button

Fill in the repair labels and fasten them to the transmitter, then fill in the intervention sheet

**END**

***Key :***

——**no**——●

=

Test is negative, repeat technical diagnosis on product (doc.:***SJ260050***)

| Index | Modif. No. | Modification | Name | Date | Approved by: |
|---|---|---|---|---|---|
| 02 | T 727 | Update since UDE vC001 and DialogUD v5.1 | E.DECHAME | 29.06.04 | Tech: / Market: |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

| | |
|---|---|
| **Transmitter final test** **UDE** | **Format:** A4 |
| | **Filename:** SJ260060-02-EN.P65 |
| | **DOC REF.:** **SJ 260060.02** **Page:** 1 / 1 |

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# Upgrading transmitter internal program

This update allows :

- a bug fix on UDE in **C001 version equipped with the option "startup by IR"** (update C001 version to C002)

- Authorization of the use of an electronic key with a button configuration different from that physically present on the transmitter (update D001 to D002).

> ***Important : this upgrade can only be performed by JAY Electronic personnel using specific tools.***

For this purpose, simply connect the grey programming key (connected to bench) to the UDE transmitter and modify the program using the **DialogUD** software.

**1-** Start the **DialogUD** software and go to the "*key and UDE parameters*" tab

**2-** To change the software version of the transmitter, simply click the "Change software version" button.
The screen shown opposite is displayed.

Click "*Bootload UDE*".

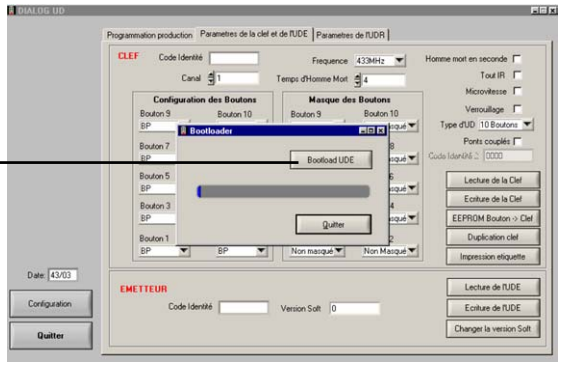


**fig.1**

**3-** After clicking "*Bootload UDE*", a panel opens in order to select a file to be loaded.

Select the file and click "*select*".
The software upgrade is automatically run.

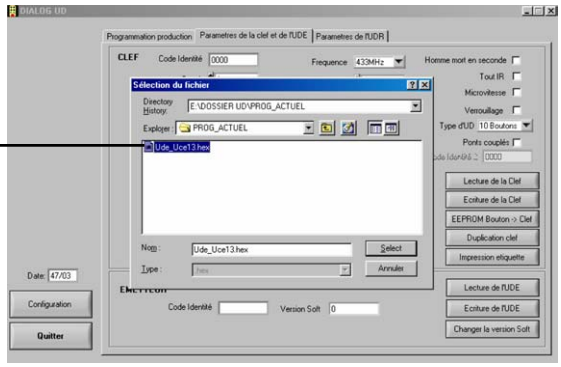


**fig.2**

## Once the upgrade is completed :

> If the transmitter is a part of a complete upgrade passage of C001 version to D002 **or** if it is about the upgrade D001 to D002, please redo two UDE descriptive labels so that those contain the correct «**D002**» version number.

> If the upgrade concerns only a bug fix on UDE C001 version + IR, please redo two descriptive labels UDE so that those contain the correct «**C002**» version number.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 22.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Upgrading transmitter program **UDE** | **Format:** A4 |
| | **Filename:** SN260235-00-EN.P65 |
| | **DOC REF.:** **SN260235.00** **Page:** 1 / 1 |


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# Connecting a power supply to transmitter UDE + battery threshold test

- Open UDE housing with TORX N°10 screwdriver and remove protective foams
- Unlock the stop palmswitch button

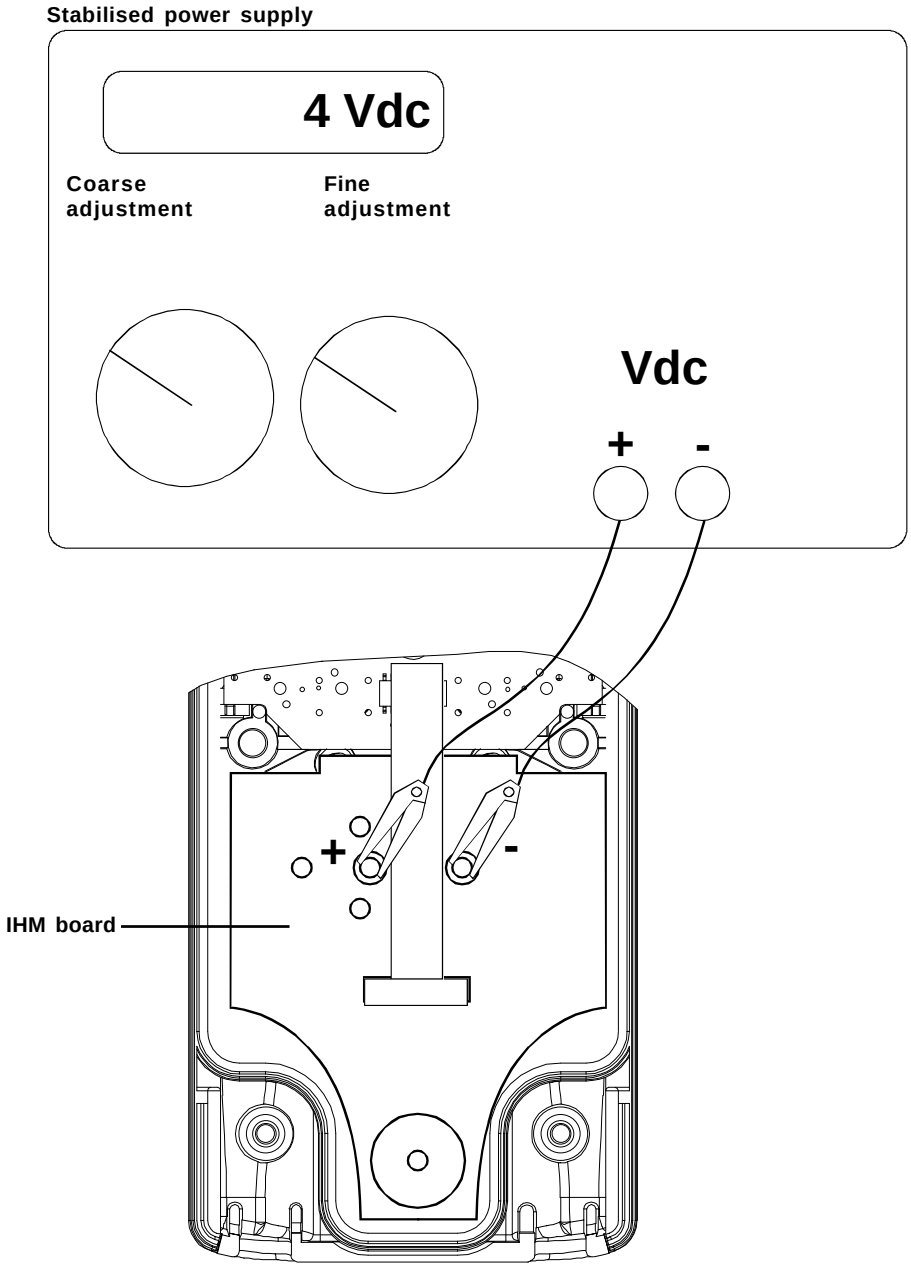


fig.1

**Before pressing the «On/Horn» button**

«Low battery» threshold : **3,4VDC < Vp.s. < 3,9VDC**

**Switched on (after pressing the «On/Horn» button)**

«Low battery» threshold : **Vp.s. < 3,4VDC**

«RESET» threshold (Transmitter switched off) : **Valim < 3,3VDC**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update, new IHM board, D001 v | E.DECHAME | 15.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Connecting a power supply to transmitter UDE | |
| Format: | A4 |
| Filename: | SN260240-02-EN.P65 |
| DOC REF.: | SN 260240.02 |
| Page: | 1 / 1 |

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# Test of UDE stop palmswitch button

## version A001 to C002 included :

**1-** Open the UDE housing using the No. 2 pozidriv screwdriver.

**2-** Disconnect the power supply wires.

**3-** Disconnect the ribbon cable linking the IHM board to the stop palmswitch button.

**4-** Lock the stop palmswitch button (down position).

**5-** Using a digital multimeter, measure the continuity across points 1 and 3, then 2 and 4: resistance should be infinite.

**6-** Unlock the stop palmswitch button (up position).

**7-** Using a digital multimeter, measure the continuity across points 1 and 3, then 2 and 4: the resistance should be null.

**8-** Reconnect the power supply wires.

**9-** Reconnect the ribbon cable linking the IHM board to the stop palmswitch button.

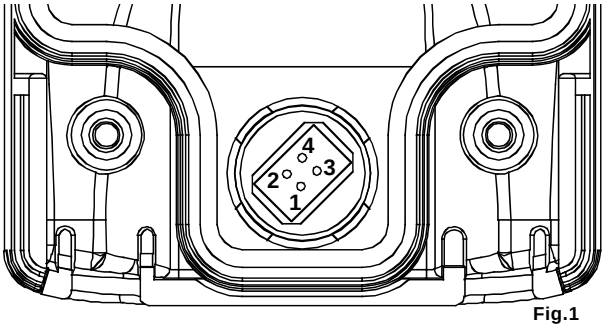

**Fig.1**

## From version D001 :

**1-** Open the UDE housing using the No. 10 Torx screwdriver.

**2-** Disconnect the 12-pins ribbon cable linking the IHM board to motherboard.

**3-** Lock the stop palmswitch button (down position).

**4-** Check the condition of 3 pistons.

**5-** Using a digital multimeter, measure the continuity across points 12 and 11, then 12 and 10: resistance should be infinite.

**6-** Unlock the stop palmswitch button (up position).

**7-** Using a digital multimeter, measure the continuity across points 12 and 11, then 12 and 10: the resistance should be null.

**8-** Reconnect the 12-pins ribbon cable.

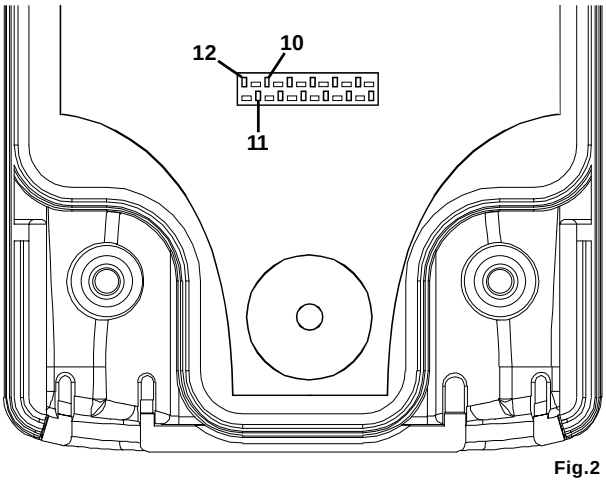

**Fig.2**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 01 | T 727 | Update, new IHM board from D001 vers. | E.DECHAME | 15.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Test of palmswitch button UDE | Format: A4 |
| | Filename: SN260250-02-EN.P65 |
| | DOC REF.: SN 260250.02 — Page: 1 / 1 |

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# Changing UDE equipped cover and equipped housing

**Tools : ..... n°10 Torx screwdriver, n°1 Pozidriv screwdriver**

**Equipped housing cover :**
Housing cover
+ 6 or 10 mounted BPxx (pushbuttons) with mechanical part
+ "On/Horn" button (mechanical part)
+ IHM board
+ Stop palmswitch button (mechanical part)
+ Housing seal
+ 2 pre-print descriptive labels
+ IR window for UDE with IR start-up option

**References :**
**PR0209 6 .....** UDE equipped cover 6+2 bt w/out IR
**PR0209 10 ...** UDE equipped cover UDE 10+2 bt w/out IR
**PR0210 6 .....** UDE equipped cover UDE 6+2 bt with IR
**PR0210 10 ...** UDE equipped cover UDE 6+2 bt with IR

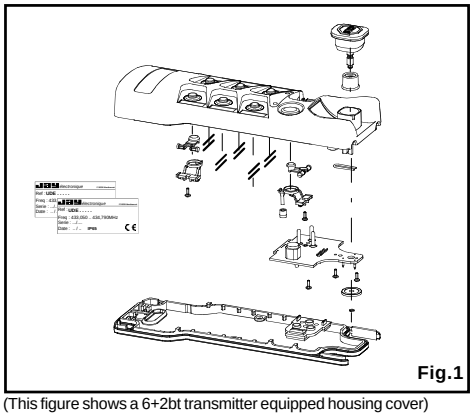
**Fig.1**
(This figure shows a 6+2bt transmitter equipped housing cover)

**Equipped housing :**
Housing cover
+ «6 mounted BP» or «10 mounted BP» or «9 mounted BP + 1 mounted BPTR (3 pos. elec. switch) at location nb.8 + label» (mechanical part)
+ «On/Horn» button (mechanical part)
+ IHM board
+ Stop palmswitch button (mechanical part)
+ Housing seal
+ 2 pre-print descriptive labels
+ IR window for UDE with IR start-up option
+ Housing bottom

**References :**
**PR0215 6 .....** UDE equipped housing 6+2 bt without IR
**PR0215 10 .....** UDE equipped housing 10+2 bt without IR
**PR0215 10T ....** UDE equipped housing+BPTR 10+2 bt without IR
**PR0217 6 .....** UDE equipped housing 6+2 bt with IR
**PR0217 10 .....** UDE equipped housing 10+2 bt with IR
**PR0217 10T ....** UDE equipped housing+BPTR 10+2 bt with IR

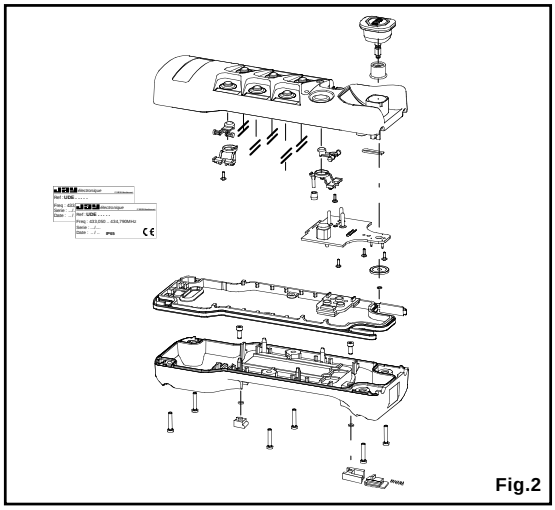
**Fig.2**
(This figure shows a 6+2bt transmitter equipped housing)

## Disassembly :

If the transmitter version No. is lower than D001, perform the upgrade procedure given in document **SN260230**.
Remove the parts to be kept using a POZIDRIV No. 1 and No. 2 screwdriver..

**or**

For a transmitter version No. D001 or higher: use a Torx No. 10 and Pozidriv No. 1 screwdriver to remove and set aside the motherboard, the transmitter radio module, the button boards, the 12-contact ribbon cable (connecting motherboard and IHM board), the fastener, the battery pack and the electronic key..

## Assembly :

**1-** If button configuration is incomplete or different from cover/housing kits, re-assembly original mechanical parts or install new mechanical kits (to upgrade the version for example), see assembly procedure from document **SN260290** and **SN260300**.
**2-** Replace and screw all original button boards in the housing.
**3-** **If the transmitter is equipped with the IR start-up option :**
**3.1-** Fill in pre-printed descriptive labels and fasten them to locations indicated in document **SN260380**.
**3.2-** Assemble IR start-up option as instructed in document **SN260355**.
**3.3-** Insert the electronic key if present.
**3.4-** Connect the battery pack.

**If the transmitter is not equipped with the IR start-up option :**
**3.1-** Fill in pre-printed descriptive labels and fasten them to locations indicated in document **SN260380**
**3.2-** Reconnect the ribbon cable linking the last button board to the motherboard (bottom connector).
**3.3-** Install the assembly formed by the motherboard/radio module in the elastic supports on the cover.
**3.4-** Connect 12-pins ribbon cables linking the motherboard to the IHM board.
**3.5-** Close the housing.
**3.6-** Install housing protective foams according to assembly procedure in document **SN260265**.
**3.7-** Insert the electronic key if present.
**3.8-** Connect the battery pack.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update, according to D001 version | E.DECHAME | 29.07.2004 | Tech: | | Market: | |

Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44

| | | |
|---|---|---|
| **Changing the equipped transmitter cover or equipped housing cover** **UDE** | **Format:** | A4 |
| | **Filename:** | SN260260-02-EN.P65 |
| | **DOC REF.:** | **SN 260260.02** — **Page:** 1 / 1 |

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# Changing the UDE protective foams

**Protective foams kit**
**Reference : ..... PR0143**
**Tools : ..... n°10 Torx screwdriver (UDE since v.D001) or Pozidriv n°2 (UDE v.A001 to C002), cutter.**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | Insert for upper foam | 1 |
| **B** | Upper protective foam | 1 |
| **C** | Lower protective foam | 1 |

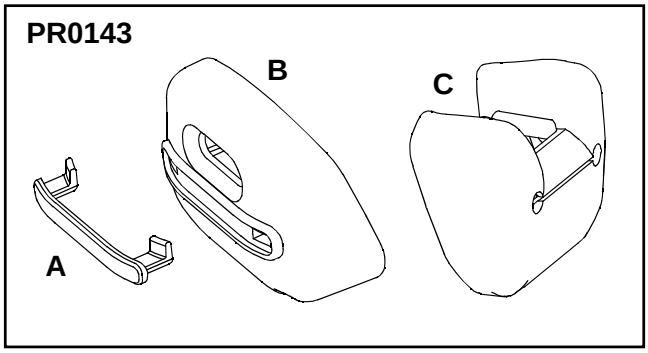

**Fig.1**

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing with a n°10 Torx screwdriver (UDE since v.D001) or Pozidriv n°2 (UDE v.A001 to C002) and separate the cover and the housing back.
**3-** Remove protective foams.

## Assembly :

**1- If transmitter was not equipped with foams before (UDE version lower than B001 i.e.), else go to point no 2 :**
**1.1-** Cut the housing seal with scissors or cutter at points (X) (fig.2), as per the following drawings (fig.3) :

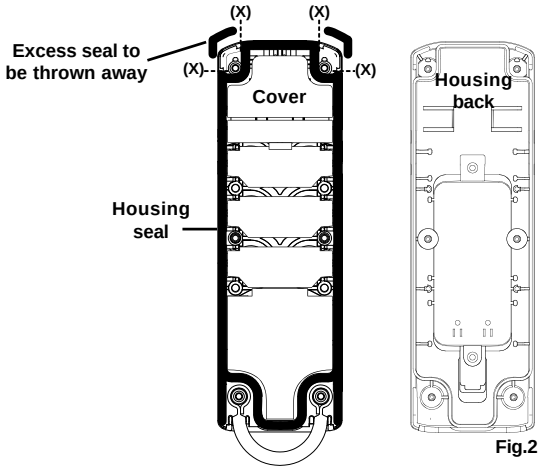

**Fig.2**

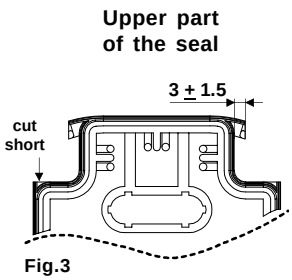

**Fig.3**

**2-** Place insert through the upper protective foam and fasten it to the cover (fig.4)
**3-** Slide the housing back above the cover taking care to maintain the insert of the upper foam in the cover (if necessary, fold slightly the upper foam) (fig.5).
(UDE version before 2004 : take care not to pinch the electric wire during this operation)

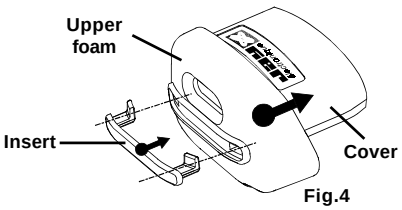

**Fig.4**

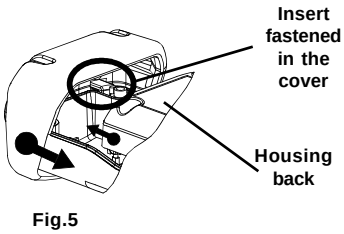

**Fig.5**

**4-** Close the housing (the lower foam may be placed after closing).
**5-** Place the lower foam on the lower part of housing back. Lower foam must correctly coat the stop palmswitch button, and the housing fastening must be inserted through the holes of protective foam.
**6-** Connect the battery pack.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 01 | T 727 | new IHM board from D001 version new foams sinc v.D003 | E.DECHAME | 17.11.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
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**Changing the protective foams UDE**

| | | | |
|---|---|---|---|
| **Format:** | A4 | | |
| **Filename:** | SN260265-01-EN.P65 | | |
| **DOC REF.:** | **SN 260265.01** | **Page:** | **1 / 1** |


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# Changing pushbutton mechanical part (for BPSV, BPDV and BPTR)

**Pushbutton mechanical part kits :**
**Reference : ..... PR0057 BP**
**Tools : ..... n°10 Torx screwdriver and n°1 Pozidriv screwdriver**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| A | Black capsule | 10 |
| B | Self-tapping screw 1,8 x 6 | 10 |
| C | Capsule ring | 10 |
| D | Button lever | 10 |

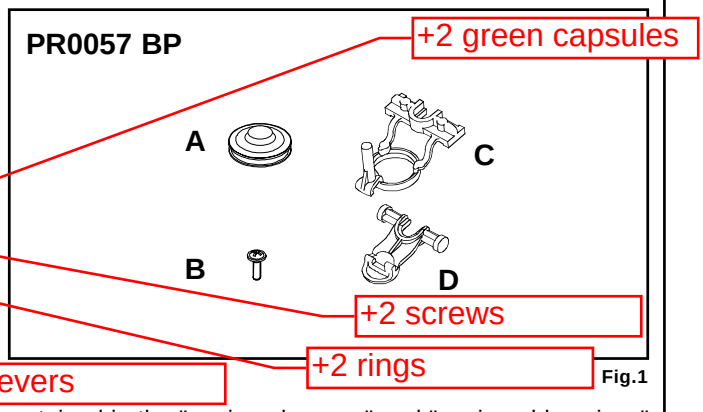

**Fig.1**

**Note :** The mechanical kit for the "On/Horn" pushbutton (green) is contained in the "equipped covers" and "equipped housings" kits (for UDE version D001 and higher).

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the No. 2 Pozidriv (UDE version A001 to C002 included) or n°10 Torx screwdriver (from UDE version D001), and remove protective foams.
**3-** The button card for the concerned button mechanical kit must be removed. Perform the button board disassembly procedure detailed in document **SN260320**.
**4-** Remove the screw securing the pushbutton mechanical kit using the No. 1 Pozidriv screwdriver and remove the assembly formed by the lever+ring+capsule.

## Assembly :

**1-** Insert the capsule in the housing cover through the inside (fig.2).
**2-** Install the lever in the capsule ring (fig.3).
**3-** Place the assembly formed by the lever + ring in the pushbutton mounting position in the housing (fig.4).
**4-** Press on point **P1** of the ring to engage it correctly in the pushbutton capsule.
**5-** Screw in the assembly gently up to the stop (caution: ring body should not bend at points **P2**).
**6-** Proceed to reinstall the button board according to document **SN260320**
**7-** Install protective foams (see doc. **SN260265**) and close the housing.
**8-** Connect the electronic key if necessary.
**9-** Connect the battery pack.

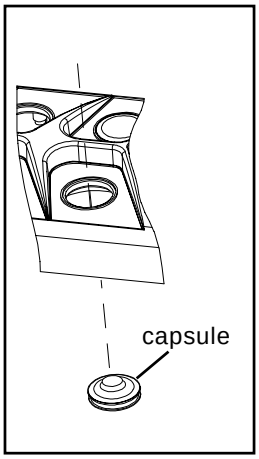

**Fig.2**

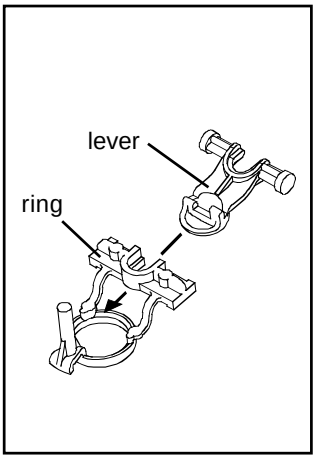

**Fig.3**

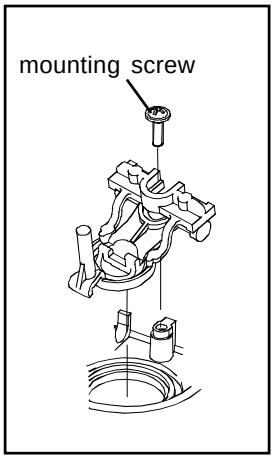

**Fig.4**

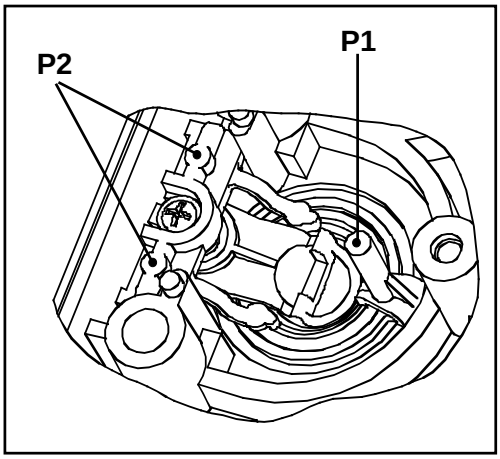

**Fig.5**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Button "On/Horn" was removed from kit | E.DECHAME | 15.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
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**Changing the pushbutton mechanical kit**
**UDE**

| | |
|---|---|
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| **Filename:** | SN260290-02-EN.P65 |
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# Changing rotary switch mechanical part (for COM2, COM3 and COM3R)

**Rotary switch mechanical kit :**
**Reference : ..... PR0057 COM**
**Tool : ..... n°10 Torx and n°1 Pozidriv screwdriver, cutter and flat angled plier**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | Rotary switch | 5 |
| **B** | Mounting screw | 5 |
| **C** | Lip seal | 5 |
| **D** | Cam | 5 |
| **E** | Spring | 10 |

**PR0057 COM**

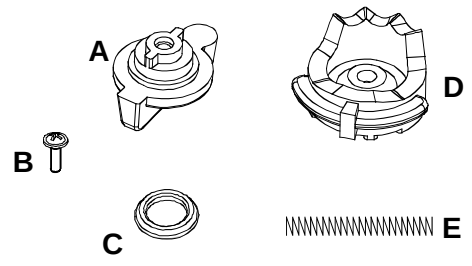


**Fig.1**

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the No. 2 Pozidriv (V.A001 to C002) or n°10 Torx (from v.D001) screwdriver and remove protective foams.
**3-** Remove the button board corresponding to the mechanical kit to be replaced; perform the procedure for disassembly of the button boards detailed in document **SN260320**.
**4-** Remove the screw securing the kit using the No. 1 Pozidriv screwdriver and remove the rotary switch mechanical assembly (switch + seal, cam and spring if present).

## Assembly :

**1- If the switch to be installed is a 3-position rotary switch, else go to point n°2:**
cut the pin on the cam (fig.2) using the cutter; no surplus thickness should remain.

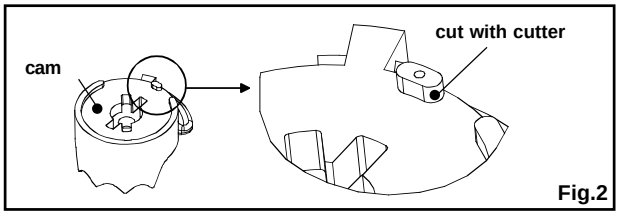


**Fig.2**

**2-** Fit the cam in the switch hole as shown in fig.3 with the pin toward the center of the housing.

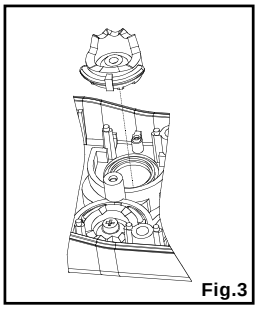

**Fig.3**

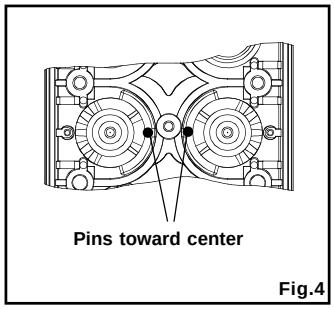


**Fig.4**

**3-** Fit the lip seal on the switch observing the correct mounting direction.

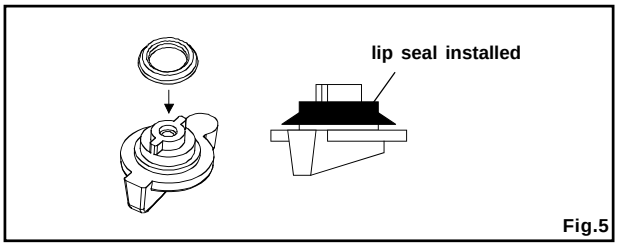


**Fig.5**

**4-** Holding the cam in position (pin toward center of housing), turnover the housing and place the seal/switch assembly in position in the cam housing.
Fit the seal/switch assembly so that the long part of the switch is pointing toward the top of the housing (fig.6)

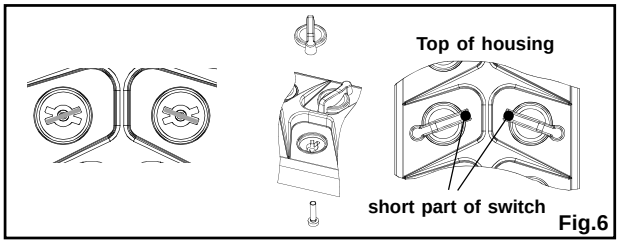


**Fig.6**

**5-** Install the mounting screw using the No. 1 Posidriv screwdriver.
**6- If the switch is a COM3R switch (3 positions with automatic return), else go to point n°7 :**
Insert 1st spring in rotary switch slot (see picture below), then turn the switch to the limit position in the other direction and install with a flat angled plier the other spring in the same way, compressing the first spring as much as possible.

**COM3R**

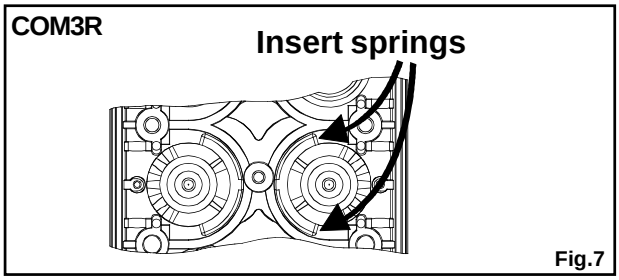


**Fig.7**

**7-** Install the button board as instructed in document **SN260320**.
**8-** Install protective foams (see doc. **SN260265**) and close the UDE housing.
**9-** Connect the battery pack.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
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| 02 | T 727 | Pictures updated | E.DECHAME | 15.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Changing the rotary switch mechanical kit**
**UDE**

| | | | |
|---|---|---|---|
| **Format:** | A4 | | |
| **Filename:** | SN260300-02-EN.P65 | | |
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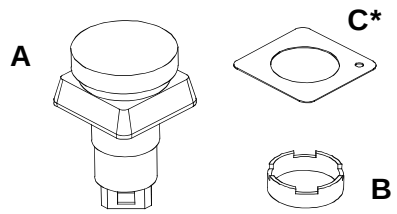
# Changing the stop palmswitch button on UDE version A001 to C002 included

**Stoppalmswitch button :**
**Reference : ..... PR0115**
**Tools : ..... n°2 Pozidriv screwdriver and specific tool ref: PR0130.**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | Stop palmswitch button | 1 |
| **B** | Nut | 1 |
| **C** | Seal | 1 |

**PR0115**




* = inserted in stop palmswitch button **Fig.1**

**Nota :** From UDE version D001, the stop palmswitch is contained in the "equipped covers " and "equipped housings" kits, see doc. **SN260260**.

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the No. 2 Pozidriv screwdriver and remove protective foams.
**3-** Disconnect the power supply wires from the UDE.
**4-** Disconnect the ribbon cable linking the IHM board to the stop palmswitch button.
**5-** Unscrew the stop palmswitch button locking ring using tool PR0130 and a screwdriver.
**6-** Remove the stop palmswitch button assembly and its seal.

## Assembly :

**1-** Insert the assembly formed by the stop palmswitch button + seal in the transmitter cover (paying attention to mounting direction; see fig. 2, locating pin).
**2-** Screw in and block the locking ring using tool PR0130 and a screwdriver.
**3-** Connect the ribbon cable linking the IHM board to the stop palmswitch button.
**4-** Connect the power supply wires.
**5-** Install protective foams (see doc. **SN260265**) and close the housing.
**6-** Connect the battery pack.
**7-** Proceeded to test, person protection must be assured during these.

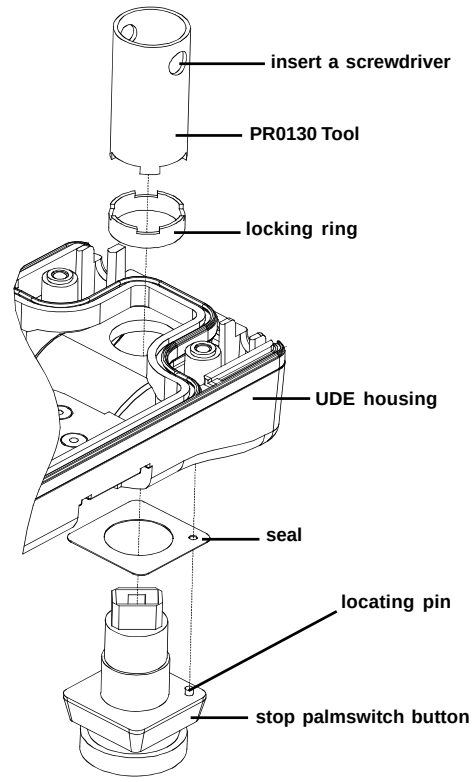



**Fig.2**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Spare part only available for UDE version A001 to C002 included | E.DECHAME | 15.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
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| | | | |
|---|---|---|---|
| **Changing the stop palmswitch button** **UDE** **version A001 to C002** | **Format:** | A4 | |
| | **Filename:** | SN260310-02-EN.P65 | |
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# Changing the button board

**Button boards :**
**References : ..... PR0117 ***

* =

| | |
|---|---|
| 1 | BPSV-BPSV |
| 2 | BPDV-BPDV |
| 3 | BPSV-COM2 |
| 4 | BPSV-COM3 |
| 5 | COM2-COM2 |
| 6 | COM2-COM3 |
| 7 | COM3-COM3 |

| | |
|---|---|
| 8 | BPSV-COM3R |
| 9 | COM2-COM3R |
| A | COM3-COM3R |
| B | COM3R-COM3R |
| C | Covers |
| D | BPSV-BPTR |
| E | COM2-BPTR |

**Tools : ..... n°10 Torx and n°1,n°2 Pozidriv screwdrivers.**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| A | Self-tapping screw 3x8 | 1 |
| B | Button board type x | 1 |

**PR0117 ***

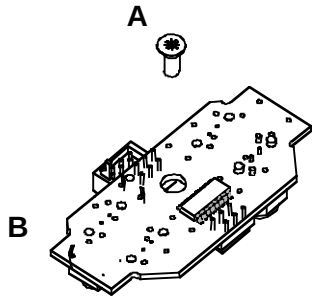


**Fig.1**

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the n°10 Torx or n°2 Pozidriv screwdriver, and remove protective foams.
**3-** For UDE version lower than D001 : disconnect the power supply wires.
**4-** Disconnect the ribbon cable linking the motherboard to the IHM board.
**5-** Remove the screw securing the button board to be replaced.

**Button board to be replaced is connected to motherboard :**
**5.1-** Pivot the button board and disconnect the ribbon cable connecting it to the lower button board.
**5.2-** Remove the assembly formed by the radio module / motherboard + button board and disconnect the ribbon cable connecting them, go to point n°6

**Button board to be replaced is located between other button boards :**
**5.1-** Pivot the board and disconnect the ribbon cable linking it to the lower button board.
**5.2-** Remove the screw securing the upper button board, pivot it and disconnect the ribbon cable linking it to the button board to be replaced, go to point n°6

**Button board to be replaced is located above the IHM board :**
**5.1-** Remove the screw securing the upper button board, then pivot it and disconnect the ribbon cable linking it to the button board to be replaced.

**6-** Remove the button board.

## Assembly :

**1- Button board replaced is located just below the motherboard :**
**1.1-** Connect the button board to the assembly formed by the radio module + motherboard
**1.2-** Connect the ribbon cable from the lower button board to the button board replaced.
**1.3-** Insert the assembly formed by the radio module + motherboard in the resilient mountings on the housing, go to point n°2

**Button board replaced is located between other button boards :**
**1.1-** Connect the ribbon cable from the button board replaced to the upper board.
**1.2-** Connect the ribbon cable from the lower board to the button board replaced, go to point n°2

**Button board replaced is located just above the IHM board :**
**1.1-** Connect the ribbon cable from the board replaced to the connector on the upper button board.

**2-** Install the button boards in the cover and screw them to the housing.
**3-** Connect the ribbon cable linking the motherboard to the IHM board.
**4-** For UDE version lower than D001 : connect the power supply wires.
**5-** Install protective foams (see doc. **SN260265**) and close the housing.
**6-** Connect the battery pack.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
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| 02 | T 727 | Update since UDE vD001 | E.DECHAME | 29.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
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**Changing a function button board**
**UDE**

| | | | |
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# Changing the motherboard (without IR start-up option)

**Motherboard (without IR start-up option) kit :**
**Reference : ..... PR0207 0**
**Tools : ..... n°10 Torx, 2.5mm Allen wrench.**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | UDE motherboard no IR | 1 |
| **B** | Allen screw | 1 |
| **C** | Washer | 1 |
| **D** | Spacer | 1 |

**PR0207 0**

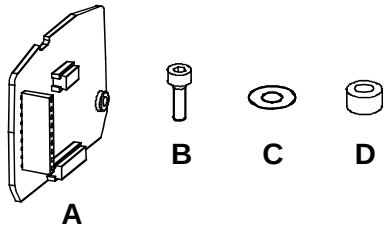


**Fig.1**

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the No. 10 Torx screwdriver and remove protective foams.
**3-** Disconnect the ribbon cable linking the motherboard to the IHM board.
**4-** Grasp the assembly formed by the motherboard + radio module and gently disengage it from its resilient mountings.
**5-** Disconnect the ribbon cable linking the motherboard to the last button board.
**6-** Remove the Allen screw using the 2.5mm Allen wrench.
**7-** Separate the two parts: radio module and motherboard.

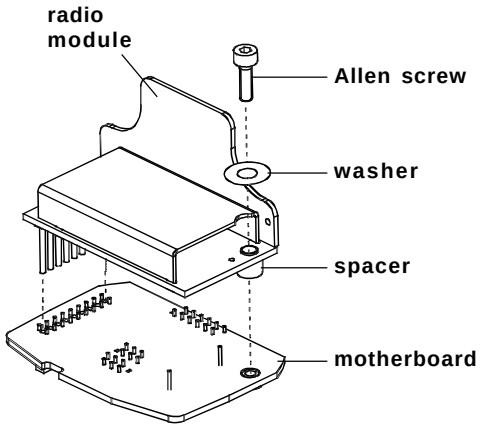


**Fig.2**

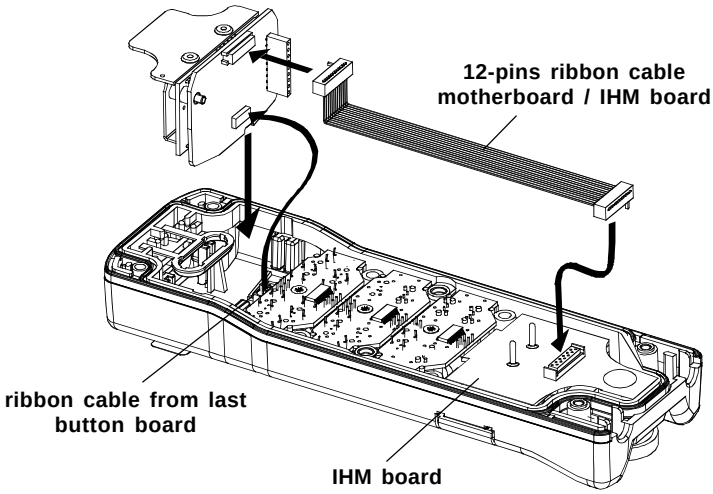


**Fig.3**

## Assembly :

**1-** Connect the replaced motherboard to the radio module.
**2-** Install the spacer between the motherboard and the radio module (fig.2).
**3-** Install the washer and the Allen screw (fig.2).
**4-** Connect the ribbon cable from the last button board to the motherboard
**5-** Install the assembly formed by the motherboard / radio module in the resilient mountings of the cover.
**6-** Connect the ribbon cable linking the motherboard to the IHM board.
**7-** Install protective foams (see doc.**SN260265**) and close the housing.
**8-** Connect the battery pack.

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|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | New Motherboard since vers. C001<br>Spacer added to PR0207 *<br>Adhesive tape removed | E.DECHAME | 29.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


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|---|---|---|---|
| **Changing the motherboard (non IR) UDE** | **Format:** | A4 | |
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# Changing the motherboard (with IR start-up option)

**Motherboard with IR start-up option kit :**
**Reference : ..... PR0207 1**
**Tools : ..... n°10 Torx screwdriver, 2.5mm Allen wrench, flat angled plier**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| A | Self-tapping screw 3x8 | 1 |
| B | Allen screw | 1 |
| C | Spacer | 1 |
| D | Washer | 1 |
| E | IR window | 1 |
| F | Pins | 2 |
| G | Mother equipped with IR start-up option | 1 |
| H | Seal | 1 |

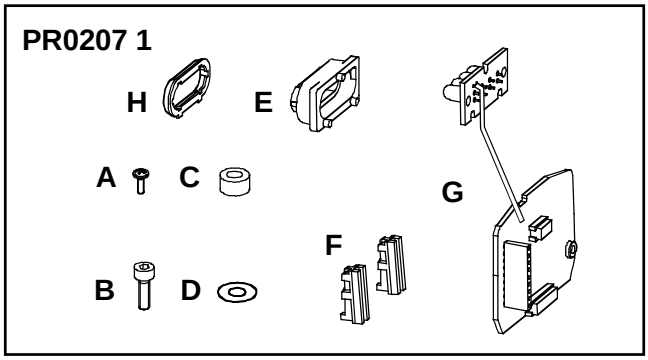

**Fig.1**

## Disassembly :

**1-** Disconnect the battery pack.
**2-** Open the UDE housing using the No. 10 Torx screwdriver, and remove protective foams.
**3-** Disconnect ribbon cables linking the IHM board to the motherboard.
**4-** Grasp the motherboard + radio module assembly and carefully disengage it from its resilient mountings.
**5-** Disconnect the ribbon cable linking the motherboard to the last button board.
**6-** Apply pressure between the LED circuit and the housing to compress the seal.
**7-** While applying pressure using a flat angled plier, LED circuit and the IR window must be released from transmitter housing.
**8-** Remove the Allen screw using the 2.5mm Allen wrench.
**9-** Separate the two parts : radio module and motherboard.

## Assembly :

**1-** Connect the replaced motherboard to the radio module.
**2-** Install the spacer between the motherboard and the radio module (fig.2).
**3-** Install the washer and the Allen screw (fig.2).
**4-** Insert the IR window on the LED circuit, observing the mounting direction given by the pins (see fig.3).
**5-** Place the seal on the IR window with the flat part against the lens (see fig.3).
**6-** Fit the assembly formed by the LED circuit/lens/IR window in the UDE housing (see fig.4).
**7-** While applying pressure using a flat angled plier, insert the two pins in the housing ribs observing the mounting direction (see fig.5); the pin locators should clip into the holes in the circuit (see fig.6).

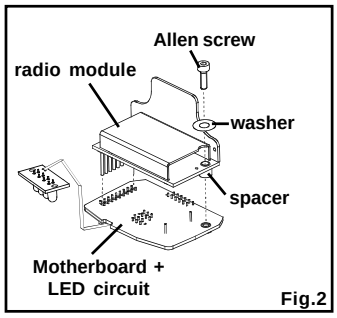

**Fig.2**

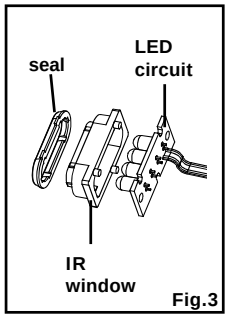

**Fig.3**

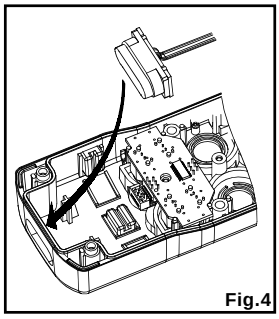
**Fig.4**

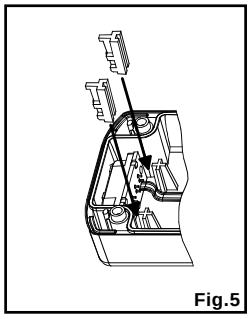
**Fig.5**

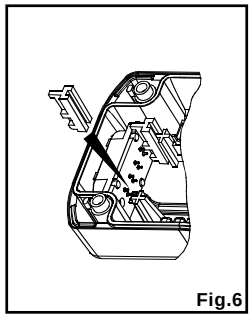
**Fig.6**

**8-** Install the assembly formed by the IR motherboard + radio module in the transmitter inserts and connect the last button to this assembly.

**9-** Connect the ribbon cable linking the motherboard to IHM board.

**10-** Install protective foam (see doc. **2600265**) and close the transmitter housing.

**11-** Connect the battery pack.

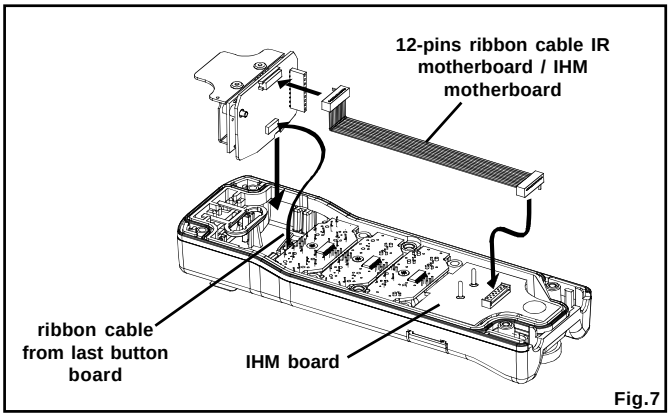

**Fig.7**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 17.11.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Changing the motherboard (with IR) UDE** | **Format:** | A4 | |
| | **Filename:** | SN260355-00-EN.P65 | |
| | **DOC REF.:** | **SN 260355.00** | **Page:** 1 / 1 |


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# Changing the transmitter radio module

**Radio module kit :**
**Reference : ..... PR0120 E**
**Tools : ..... n°10 Torx or n°2 Pozidriv screwdriver, 2.5mm Allen wrench.**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | Allen screw | 1 |
| **B** | Washer | 1 |
| **C** | Spacer | 1 |
| **D** | Radio module | 1 |

**PR0120 E**

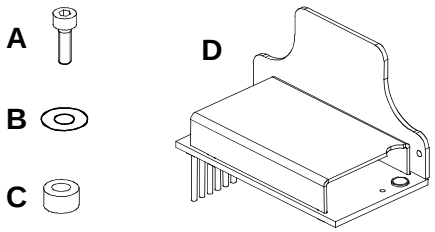


**Fig.1**

### Disassembly :

**1-** Disconnect the battery pack.

**2-** Open the UDE housing using the n°10 Torx (D001 vers. and higher) or n°2 Pozidriv screwdriver, and remove protective foams.

**3-** Grasp the assembly formed by the motherboard + radio module and gently disengage it from its resilient mountings.

**4-** Remove the Allen screw using the 2.5mm Allen wrench.

**5-** Disconnect and remove the radio module from motherboard.

## Assembly :

**1-** Connect the replaced radio module to motherboard.

**2-** Install the spacer between the motherboard and the radio module (fig.2).

**3-** Install the washer and the Allen screw (fig.2).

**4-** Install the assembly formed by the motherboard / radio module in the resilient mountings of the cover.

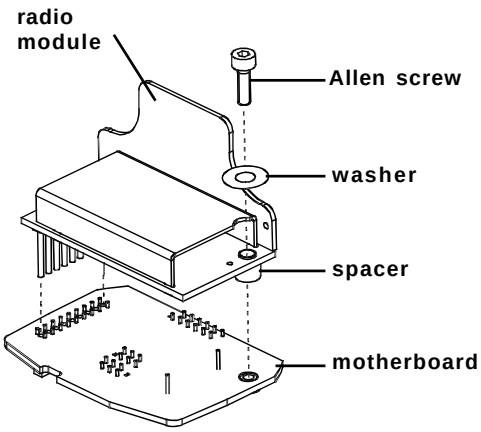


**Fig.2**

**5-** Install protective foams (see doc.**SN260265**) and close the housing.

**6-** Connect the battery pack.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update, from D001 version | E.DECHAME | 15.06.04 | **Tech:** | | **Market:** | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Changing the radio module**
**UDE**

| | |
|---|---|
| **Format:** | A4 |
| **Filename:** | SN260360-02-EN.P65 |
| **DOC REF.:** | **SN 260360.02** |
| **Page:** | **1 / 1** |


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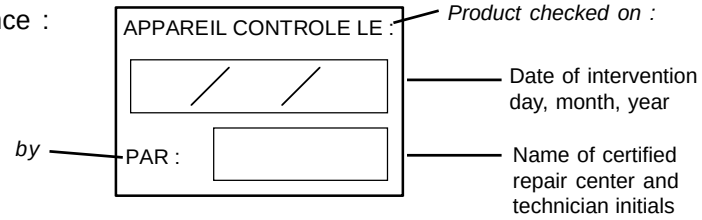
# Markings on repaired UDE transmitter

## 1- Repair label

Two repair labels must be filled in and applied to the transmitter (see location in § 3).

> **Repair labels must be applied after each intervention (under warranty or not)**

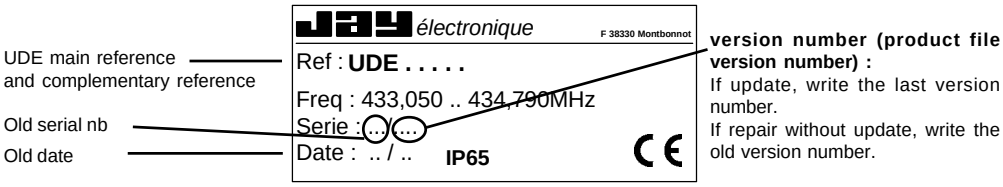
Repair labels can be ordered under reference : **PR0229** (a roller of 1000 labels)



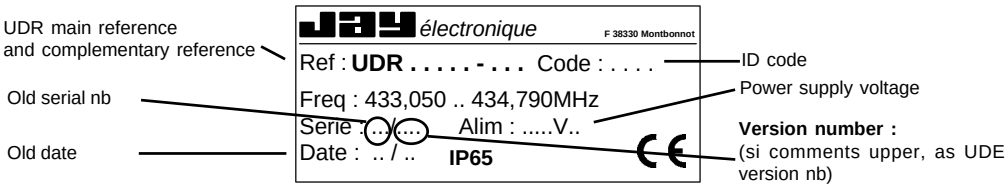

## 2- UDE transmitter, electronic key and appaired UDR receiver descriptive labels

If the unit has been transformed, the information on the transmitter and receiver nameplates must be changed accordingly. To do so, use blank nameplates, filled in as follows:

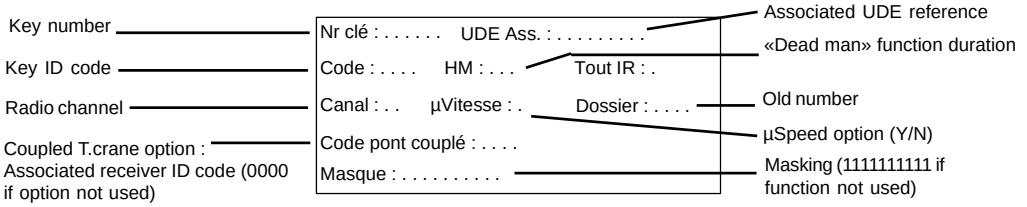
**UDE labels**
(location on below)



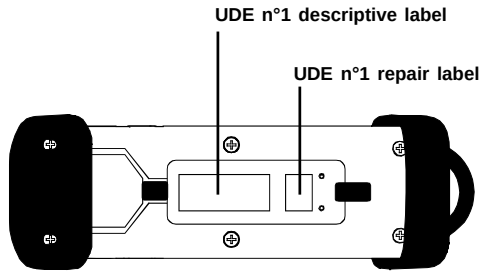

**UDR labels**
(see UDR data repair package)

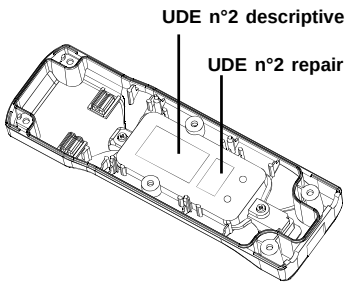



**Electronic key parameter labels**
(to be sticked on page n°2 of this document, and send to customer)




## 3- Location of repair labels and descriptive labels on UDE transmitter housing




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | New pictures and descriptive labels + electronic key label | E.DECHAME | 15.06.04 | Tech: | | Market: | |


JAY électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Markings on repaired transmitter UDE** | **Format:** | A4 | |
| | **Filename:** | SN260380-02-EN.P65 | |
| | **DOC REF.:** | **SN 260380.02** | **Page:** 1 / 2 |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# UDE transmitter
# Grey key identification sheet

**KEEP THIS DOCUMENT**

Read and keep this document in a safe location.
It contains important information concerning the key which you have just received

For operation of your radio remote control, refer to the UD installation and user manual.

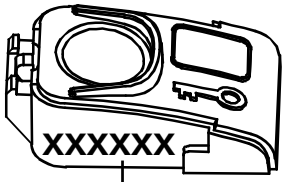
An identification No. is engraved on the side of the electronic key.
This key contains all the parameters of your transmitter, ensuring correct communication with the associated receiver (Frequency channel, identification code, dead man time ...)

Please indicate this identification No. when ordering a new identical key.

Please identify your electronic key using the label supplied with the key.

Fill in the identification of the equipment controlled by this key.

**UDE transmitter electronic key**




(6-digit number engraved on electronic key)

**Electronic key parameter label :**
(to be sticked by the repairman)

**Equipment :**
(to be filled in by the customer)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BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX - FRANCE
Phone: 04.76.41.44.00 / Fax: 04.76.41.44.44
www.jay-electronique.fr



**Doc : SN260380.02**

LE 26/07/2004 A 18:33:53 EDITION DE DOSSIER DOS011

DOSSIER : DOSGEN R27 E 003
UD REPAIR DATA PACKAGE : UDR RECEIVER PART

ARTICLE : DOSGEN R27

FOURNISSEUR : 38JA10 JAY ELECTRONIQUE S.A.

ETAT : VALIDE ET ACTIF 176 RUE LAVOISIER
38330 MONTBONNOT ST MARTIN

COMMENTAIRE :

DATE CREATION : 26.07.2004
DATE ENVOI FRS : 0.00.0000
DATE DE FIN : 0.00.0000
CONSULTAT. FRS : 0.00.0000
DATE ACC.RECEPT: 0.00.0000

DOSSIER SOURCE : E 002

DOSSIER GENERAL DE PRODUCTION :

LIGNES ASSOCIEES

| | N°ORDRE | DOCUM/OUTIL | ETAT | DESIGNATION | |
|---|---|---|---|---|---|
| * | 01 | SN 270070 02 | V | LIST OF TOOLS REQUIRED FOR REPAIR | UDR |
| * | 02 | SN 270075 00 | V | DETERMINE VERSION OF UDR RECEIVER | UDR |
| * | 03 | SE 270020 02 | V | EXPLODED VIEW / UDR VERSION A001 TO B002 INCL. | UDR |
| * | 04 | SE 270021 00 | V | EXPLODED VIEW / UDR VERSION B003 AND HIGHER | UDR |
| * | 05 | SE 270200 00 | V | ACCESSORIES AND SPARE PARTS | UDR |
| * | 06 | SN 270080 02 | V | CHANGES TO RECEIVERS | UDR |
| * | 07 | SJ 270040 02 | V | QUICK TEST BEFORE INTERVENTION | UDR |
| * | 08 | SJ 270050 02 | V | TECHNICAL DIAGNOSIS | UDR |
| * | 09 | SJ 270060 02 | V | FINAL TEST AFTER INTERVENTION | UDR |
| * | 10 | SN 270090 02 | V | CHANGING THE RECEIVER HOUSING | UDR |
| * | 11 | SN 270095 01 | V | CHANGING THE UDF IF MODULE ELECTRONIC BOARD | UDF |
| * | 12 | SN 270100 02 | V | CHANGING THE RECEIVER MOTHERBOARD | UDR |
| * | 13 | SN 270110 02 | V | CHANGING THE RECEIVER RADIO MODULE | UDR |
| * | 14 | SN 270120 02 | V | MARKINGS ON REPAIRED RECEIVER | UDR |

# List of tools required for repair of receiver UDR

## ❍ Mechanical part :

- 6mm flat-tip screwdriver (for fuse-holder)
- No.1 POSIDRIV screwdriver (for radio module mounting screws)
- No.2 POSIDRIV screwdriver (for screws securing housing,motherboard and IR module)
- No.10 TORX screwdriver (for screws securing IR module electronic board)
- 16mm box spanner (for BNC connector)
- 2.5mm Allen wrench (for antenna unit screw)
- Electronics flat noise pliers (for plastic spacers of housing)
- Kit of 2 spanners, ref : **PR0142** comprising :
  - spanner for assembly / disassembly PG29 plastic cable gland
  - spanner for assembly / disassembly serial option
- Soldering iron (for UDF electronic board)

## ❍ Measurement and test part:

- Stabilised power supply 12-24VDC / 1 A min
- AC power supply, 24-48VAC / 20 VA
- Digital multimeter
- Test transmitter UDE, ref. : ***UDE122222 010***
- Test IR module, ref. : ***UDF1***
- Serial link accessory, ref. : ***UDWR32***
- «Dialog UD» software , **v5.1** minimum, ref. : ***UDWR36***

**Test products and test accessories**

- PC microcomputer equipped with a serial port COM
- Test receiver radio modules, ref. :
  ***PR0120 R*** (for UDR version A001 to B002 included)
  ***PR0208R*** (for UDR version B003 and higher)
- Test relay board, ref. : ***PR0122***

**Test spare parts**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Test UDE : UDE122222 010<br>DialogUD v5.1 minimum<br>PR0208 R for UDR v.>B002 | E.DECHAME | 01.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
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| | | | |
|---|---|---|---|
| List of tools required for repair UDR | Format: | A4 | |
| | Filename: | SN270070-02-EN.P65 | |
| | DOC REF.: | **SN 270070.02** | Page: 1 / 1 |


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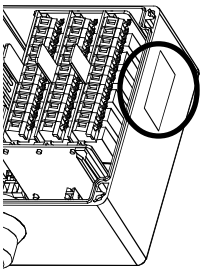
# Determine version number of UDR receiver, receiver mother board and UDF IR module

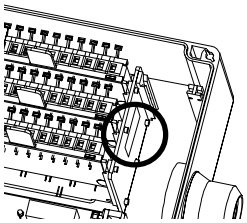
These version numbers identify product versions and therefore their various technical changes.

The table of technical changes (doc.SN270080) indicates all the upgrades which you need to perform on the UDR receiver in accordance with its version number.

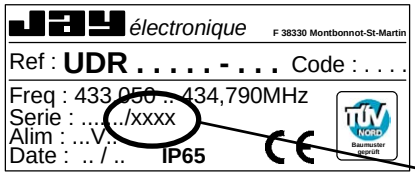
## 1- UDR receiver

The version number is indicated on the nameplate, fastened to the receiver housing and inside receiver housing.

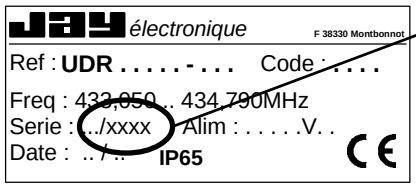




**Nameplate for UDR version A001 to B003 included**



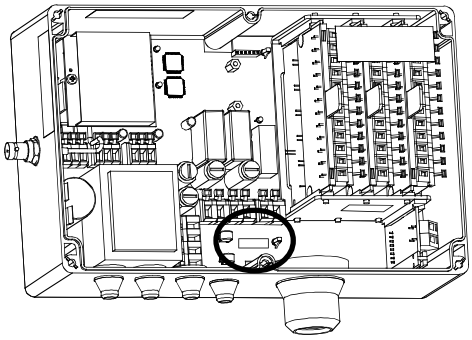

**Nameplate for UDR version C001 and higher**

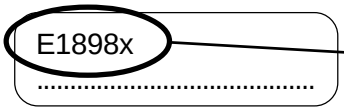



**UDR version number**
(example : C001)

## 2- Receiver mother board

The version number is indicated on a label, fastened on PCB, close to power supply terminals strips.

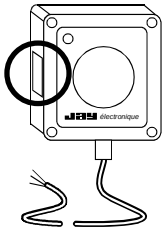


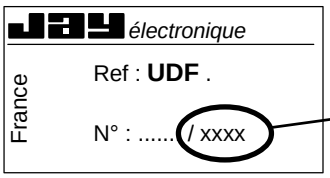



**Receiver mother board version number**
(example : E18980)

## 3- UDF IR module

The version number is indicated on the nameplate, fastened to the UDF housing.






**UDF IR module version number**
(example : A002)

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 01.07.04 | Tech: | | Market: | |


BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| Determine product version number UDR | Format: | A4 | |
| | Filename: | SN270075-00-EN.P65 | |
| | DOC REF.: | SN 270075.00 | Page: 1 / 1 |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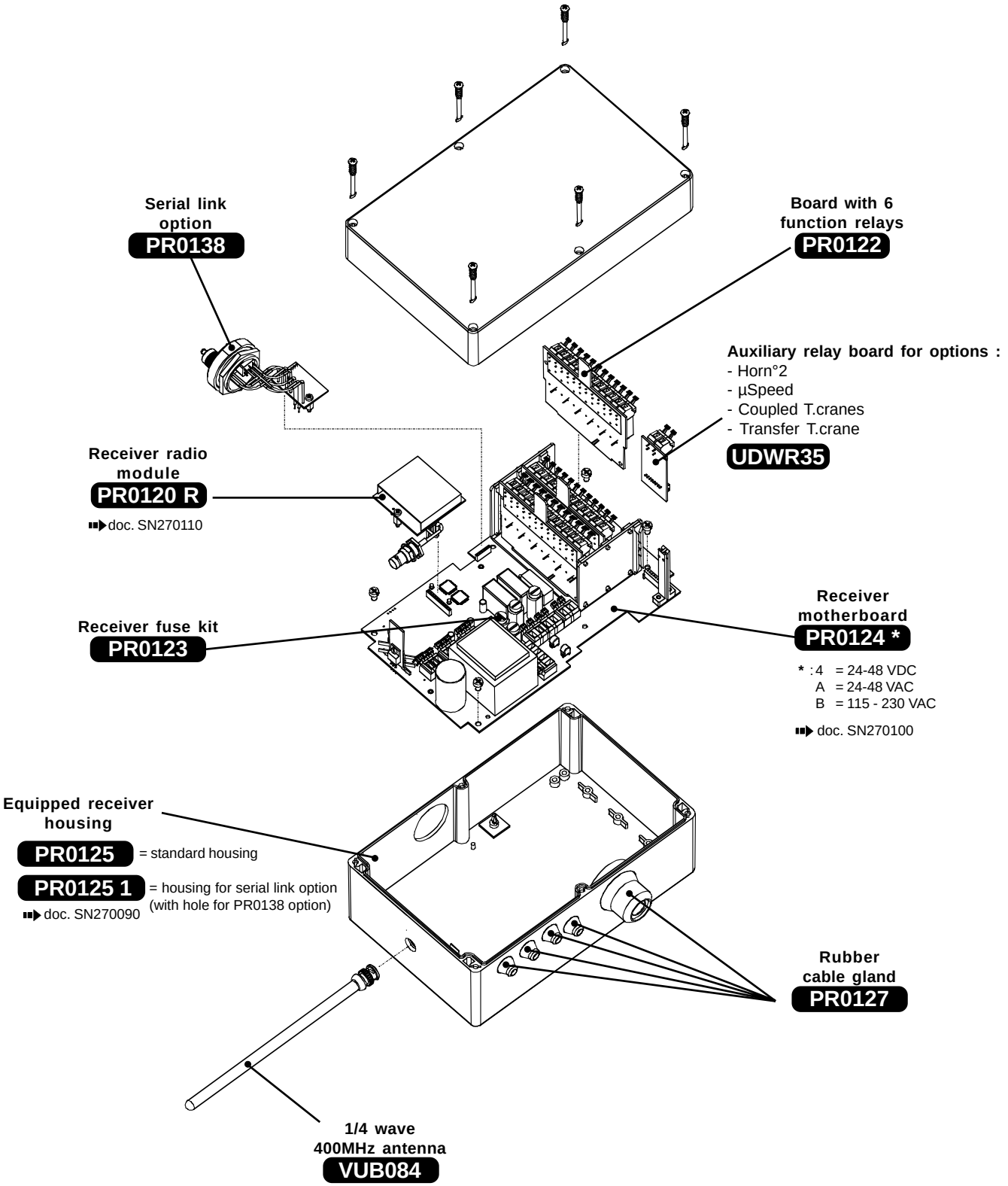
# UDR exploded view for version A001 to B002 included

***Note 1 :*** *The figure below shows a receiver with housing for serial link option.*




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Decomposition following version | E.DECHAME | 01.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
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| | | | |
|---|---|---|---|
| Exploded view of receiver **UDR** version A001 to B002 | Format: | A4 | |
| | Filename: | SE270020-02-EN.P65 | |
| | DOC REF.: | **SE 270020.02** | Page: 1 / 1 |


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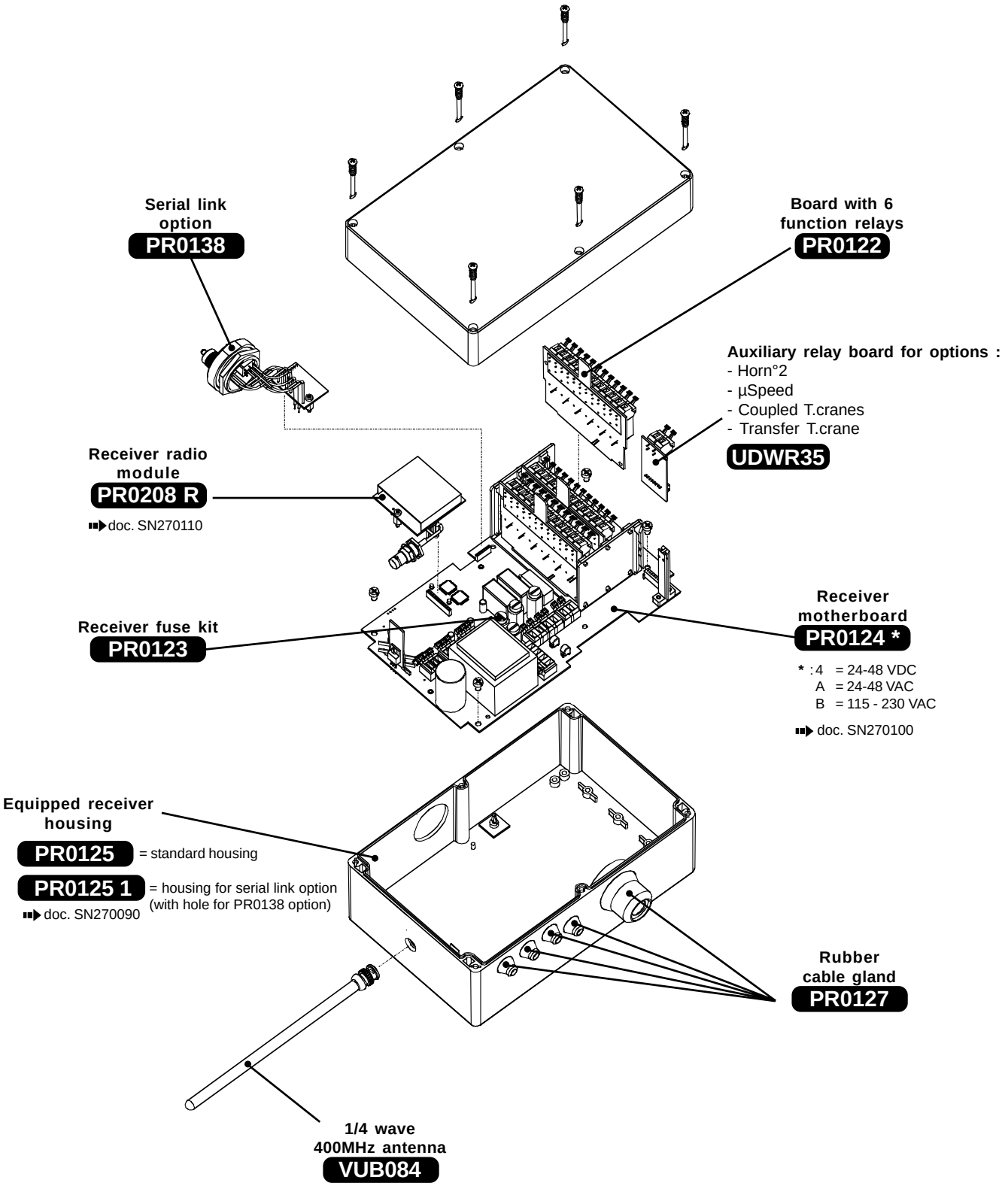
# UDR exploded view for version B003 and higher

***Note 1 :*** *The figure below shows a receiver with housing for serial link option.*




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 01.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
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| | | | |
|---|---|---|---|
| Exploded view of receiver **UDR** version B003 and higher | Format: | A4 | |
| | Filename: | SE270021-00-EN.P65 | |
| | DOC REF.: | **SE 270021.00** | Page: 1 / 1 |


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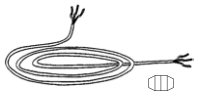
# Various accessories and spare parts for UDR receiver

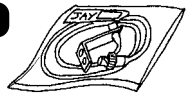
## Antenna and cable extension

10m cable gland kit for UDF module
**UDWR10**



2m antenna extender + insulated bracket
**VUB100**

5m antenna extender + insulated bracket
**VUB120**



1/4 wave antenna for vehicle + 5m
**VUB150**

1/2 wave 400MHz staright/ offset antenna
**VUB086**

2m antenna extender + non-insulated bracket
**VUB105**

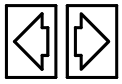
5m antenna extender + non-insulated bracket
**VUB125**

## Directional arrow

Set of 4 colored directional arrows
**UWE002**

**yellow**
**brown**
**green**
**blue**

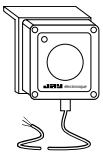
Set of 2 colored directional arrows
**UWE001**



## UDF IR module

Kit with 1 IR module + 10m cable
**UDF1**

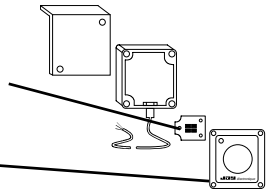
Kit with 2 IR modules + 10m cable
**UDF2**



IR module electronic board
**PR0134**

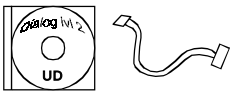
changing procedure **SN270095**

IR window for UDF module
**PR0133**

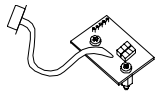


## Monitoring and diagnostic accessories

«Dialog UD» level 2 + RS232 cable
**UDWR37**
(version 5.1 minimum)

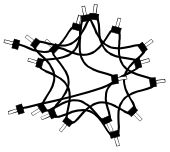



Serial link accessory
**UDWR32**



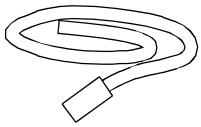
## Various spare parts

Common wiring accessory
**UDWR12**



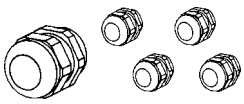
16-pin male connector + 2m cable
**UDWR13**

24-pin male connector + 2m cable
**UDWR14**



Plastic cable gland kit
**UDWR11**

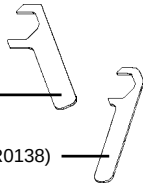
PG29 PG9 x 4



Spanners kit
**PR0142**

Spanner for assembly/disassembly PG29 cable gland

Spanner for assembly/disassembly serial link option (PR0138)



| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 00 | T 727 | First issue | E.DECHAME | 24.06.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| Various accessories and spare parts UDR | |
| Format: | A4 |
| Filename: | SE270200-00-EN.P65 |
| DOC REF.: | SE 270200.00 |
| Page: | 1 / 1 |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# Upgrading UDR receivers according to version

## 1- Upgrading receivers :

| UDR version number | Obligatory upgrade | Part(s) to be used for the upgrade | | |
|---|---|---|---|---|
| | | Description | Reference | Assembly / disassembly procedure |
| **A001 to A003 included** | Mother board have to be changed if its version nb is lower than **E18982** | UDR mother board | **PR0124 A** (24-48VAC)<br>**PR0124 B** (115-230VAC)<br>**PR0124 4** (12-24VDC) | SN270095 |
| | **If modification for using the "Horn n°2" function :**<br>Mother board have to be changed if its version nb is lower than **E18984** | | | |
| | **If modification for using "micro-speed", "coupling cranes" or "transfer crane" functions :**<br>Mother board have to be changed if its version nb is lower than **E18986** | | | |
| | **If UDR with IR start-up option, check of UDF IR module version number :**<br>IF UDF version number is < than **A002,** the UDF electronic board must be changed | UDF electronic board | **PR0134** | SN270100 |
| **B001** | **If modification for using "micro-speed", "coupling cranes" or "transfer crane" functions :**<br>Mother board have to be changed if its version nb is lower than **E18986** | UDR mother board | **PR0124 A** (24-48VAC)<br>**PR0124 B** (115-230VAC)<br>**PR0124 4** (12-24VDC) | SN270100 |
| **Since B002** | **No obligatory upgrade**<br><br>(The last version on 07/2004 is **C003**) | | | |

## 2- UDR mother board / UDR radio module pairing in case of repair / exchange :

UDR mother board with a version number **E18980 to E18984 included**, have to be paired with a **PR0120 R** radio module.

UDR mother board with a version number **E18985 and higher**, have to be paired with a **PR0208 R** radio module.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update according new versions<br>Pairing the mobo and radio module | E.DECHAME | 01.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| Changes to receivers UDR | Format: | A4 | |
|---|---|---|---|
| | Filename: | SN270080-02-EN.P65 | |
| | DOC REF.: | **SN 270080.02** | Page: 1 / 1 |


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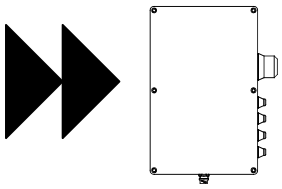

**Additional information**

See table of probable faults on page 3

**Key**

**no** = Refer to various chapters of receiver technical diagnosis (document SJ270050)

**START**

Switch on the receiver

Receiver yellow led on? — no

yes

Safety microprocessor leds flash? — yes

no

with DialogUD software, go to "receiver parameters" and read receiver EEPROM memory

For receiver with IR start-up option, untick this option for continue

**UDWR36** DialogUD software **v5.1 minimum** + programming tool PO1527

Use repaired customer transmitter with its electronic key
or
Program a **test electronic key** with correct parameter (receiver to be tested) and place it on **test transmitter.**

Go to "Test" menu in DialogUD software (check of radio quality rate)

Checked customer transmitter or test transmitter

Unlock stop palmswitch and press "On" button

Radio quality rate is 100 % ? — no (go to radio module check in document SJ270050)

yes

safety relays and horn relay are pulled in when "on" button is pressed ? — no (go to radio module check in document SJ270050)

**yes**

Measure the safety relays, horn relay and auxiliary relay (if auxiliary board is present) contact resistance

Digital multimeter

relay contact resistance is R< 2 Ohms ? — no (go to relay state chek in document SJ270050)

yes

Press one by one transmitter function buttons

Actions are transmitted to function relays ? — no (go to functional check in document SJ270050)

yes

Digital multimeter

Function relay contact resistance is R< 2 Ohms ? — no (go to relay state chek in document SJ270050)

yes

continued on page 2

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update due to new DialogUD 5.1 version | E.DECHAME | 22.07.04 | Tech: | | Market: | |
| Jay électronique<br>BP5 - 176, rue Lavoisier<br>MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX<br>Tel: +33.(0)4.76.41.44.00<br>Fax: +33.(0)4.76.41.44.44 | | **Quick test before intervention UDR** | **Format:** | A4 | | | | |
| | | | **Filename:** | SJ270040-02-EN.P65 | | | | |
| | | | **DOC REF.:** | **SJ270040.02** | | **Page:** | **1 / 3** | |

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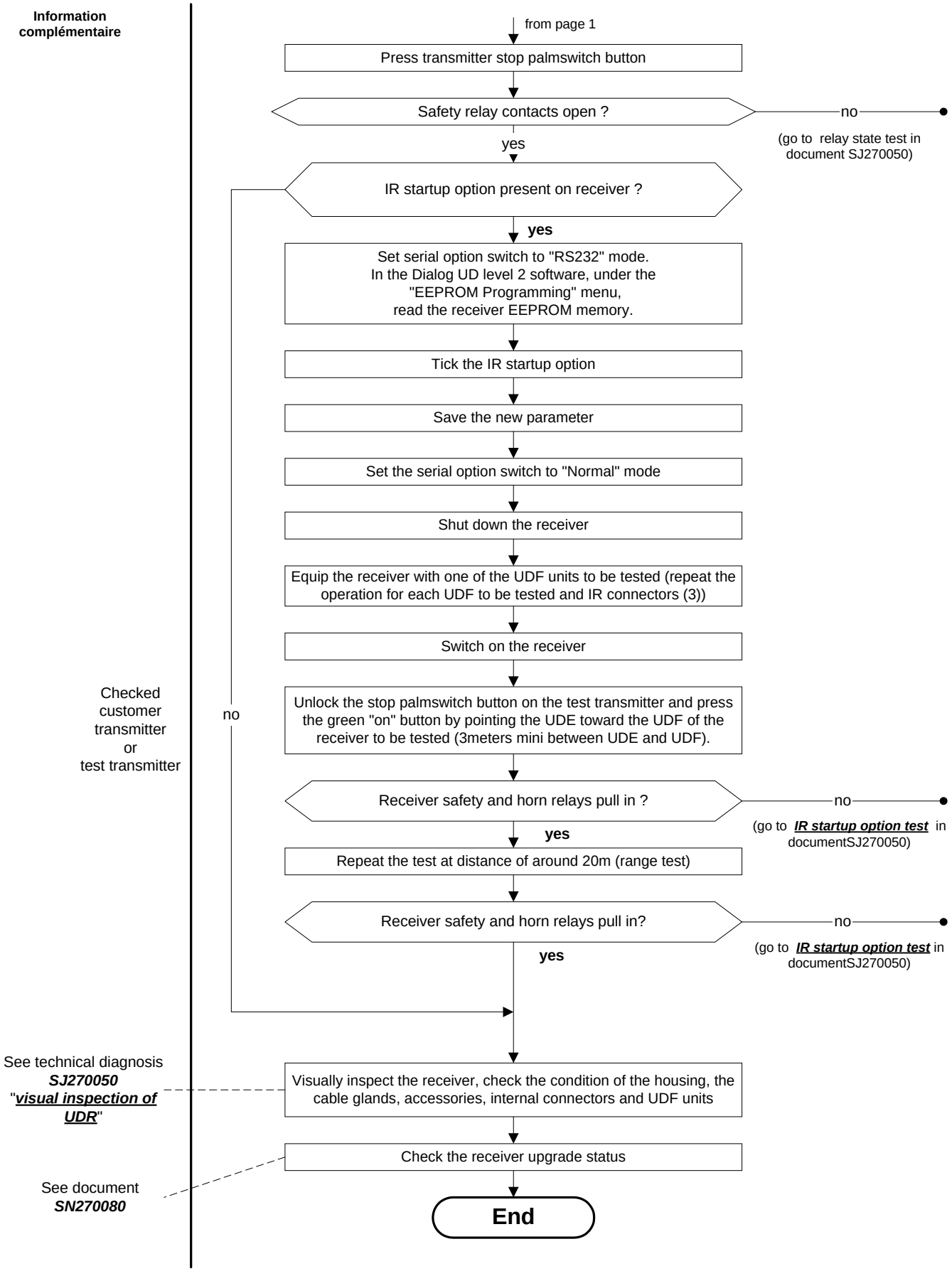
**Information complémentaire**



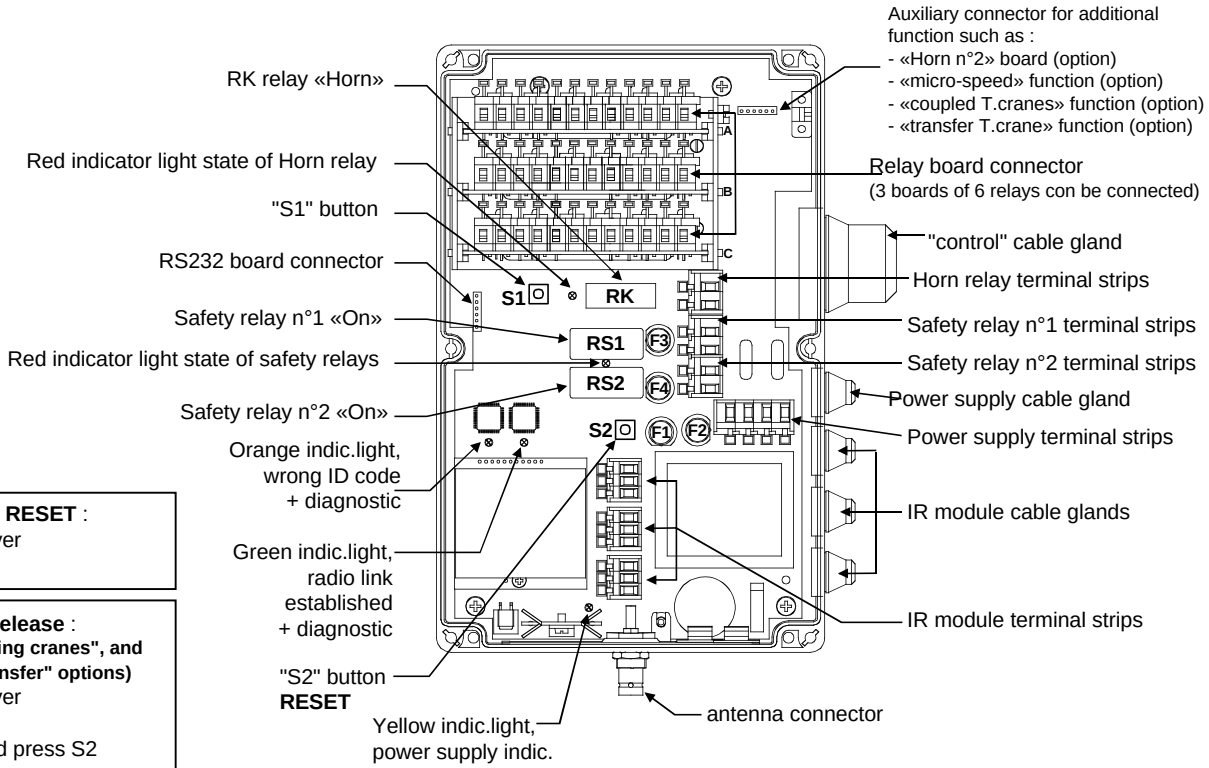
# UDR receiver indicator light functions — UDR version A001 and higher

## Error messages generated by microprocessor indicator lights

| Safety Microproc. LED 1 **- ORANGE -** | Safety Microproc. LED 2 **- GREEN -** | **Possible causes of fault** | **Corrective actions** |
|---|---|---|---|
| **Off** **(supplied but Yellow power indicator light also off)** | | - Fuses blown<br>- Incorrect power supply wiring<br>- Faulty transformer | - Check condition of fuses and fuse rating<br>- Check power supply wiring according to receiver model<br>- Replace motherboard |
| **2 flashes** | | - Auxiliary board faulty | - Replace auxiliary board<br>- Replace motherboard |
| **3 flashes** | | - Safety relays faulty | - Replace motherboard |
| **4 flashes**<br>**5 flashes**<br>**6 flashes**<br>**7 flashes** | | - Internal faults on memories and microprocessors | - Replace motherboard |

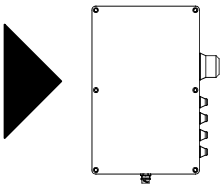
## Other messages generated by receiver motherboard indicator lights

| LED name and color | Mode | Indication | Message | State |
|---|---|---|---|---|
| **Safety Microproc.1 LED (ORANGE)** | *Normal* | Indicates validity of identity code | Message not received | OFF |
| | | | Message received with correct identity code | OFF |
| | | | Message received with incorrect identity code | Flashes regularly |
| | *Serial link* | "RS232 mode" | | ON |
| **Safety Microproc.2 LED (GREEN)** | *Normal* | Indicates radio reception quality | No radio reception | OFF |
| | | | Poor radio reception | Flashes |
| | | | Good radio reception | ON |
| | *Serial link* | "RS232 mode" | | OFF |
| **Horn relay LED (RED)** | All | Horn relay state | not activated (OFF) | OFF |
| | | | activated (ON) | ON |
| **Auxiliary relay LED (RED)** | All | Auxiliary relay state on auxiliary board (option) | not activated (OFF) | OFF |
| | | | activated (ON) | ON |
| **ON Power LED (YELLOW)** | All | Indicates power supply | Receiver shut down | OFF |
| | | | Receiver powered up | ON |
| **Safety relay LED (RED)** | All | State of safety relays | not activated (OFF) | OFF |
| | | | activated (ON) | ON |
| **Function relay LED (RED)** | All | State of function relay N | not activated (OFF) | OFF |
| | | | activated (ON) | ON |




**UDR motherboard RESET** :
**1 -** Switch on receiver
**2 -** press S2 button

**Receiver manual release** :
**(for "Coupled travelling cranes", and "Travelling crane transfer" options)**
**1 -** Switch on receiver
**2 -** press S1 button
**3 -** Maintain S1, and press S2
**4 -** release S1
**5 -** release S2



# UDR TECHNICAL DIAGNOSIS

***- for preparation of an estimate -***

**PRODUCT INTERVENTION SHEET**
*(TO BE COMPLETED)*

Sub-assy to be replaced

| Tool | Additional information | | Sub-assy to be replaced |
|---|---|---|---|
| | | **START** | |
| | | **Visual inspection of UDR** | |
| POZIDRIV screwdriver No. 2 | | Open the receiver housing | |
| | See "Receiver changes" document ***SN270080*** | Check the receiver version | |
| | | Receiver complies with respect to technical changes table? — no → | ****** Spare part or technical upgrade accessory (**X99** fault code) (P.M.) |
| | | yes | |
| -POZIDRIV screwdriver No. 2, No. 1 - 16mm box spanner -2.5 mm Allen wrench -flat nose pliers | See receiver housing replacement procedure ***SN270090*** | Housing in good condition? — no → | ***PR0125*** ***PR0125 1*** Receiver housing (P.M.) |
| | | yes | |
| | | Cable glands in good condition? — no → | ***PR0127*** ***UDWR11*** cable gland kits (P.M.) |
| | | yes | |
| Torx screwdriver No. 10 | | If present, IR modules in good condition? — no → | ***UDF 1 / 2*** ***PR0133*** IR module (P.M.) |
| | | yes | |
| | | If present, plug-in connectors in good condition? — no → | ***UDWR13*** ***UDWR14*** Connector (P.M.) |
| | | yes | |
| | | Antenna and extension in good condition — no → | ***VUB084-086*** ***VUB105-125*** Antenna / Extension (P.M.) |
| -POZIDRIV screwdriver No. 2, No. 1 -16mm box spanner -2.5mm Allen wrench -flat nose pliers | See motherboard replacement procedure ***SN270100*** | yes | |
| | | Receiver motherboard oxidised or modified by third party? — yes → | ***PR0124 4/A/B*** Motherboard (P.M.) |
| | | non | |
| | | Spring terminal boards in good condition? — non → | ***PR0124 4/A/B*** Motherboard (P.M.) |
| | | yes | |
| | | Continued on page 2 | |

**Symbols/abbreviations :**
**▶▶:** Continue Diagnosis
**—■:** Stop Diagnosis
P.M. : Preventive Maintenance

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update since DialogUD 5.1 | E.DECHAME | 22.07.04 | Tech: | | Market: | |
| Jay électronique<br>BP5 - 176, rue Lavoisier<br>MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX<br>Tel: +33.(0)4.76.41.44.00<br>Fax: +33.(0)4.76.41.44.44 | | **Receiver technical diagnosis UDR** | **Format:** | A4 | | | | |
| | | | **Filename:** | SJ270050-02-EN.VSD | | | | |
| | | | **DOC REF.:** | **SJ 270050.02** | | **Page:** | **1 / 6** | |

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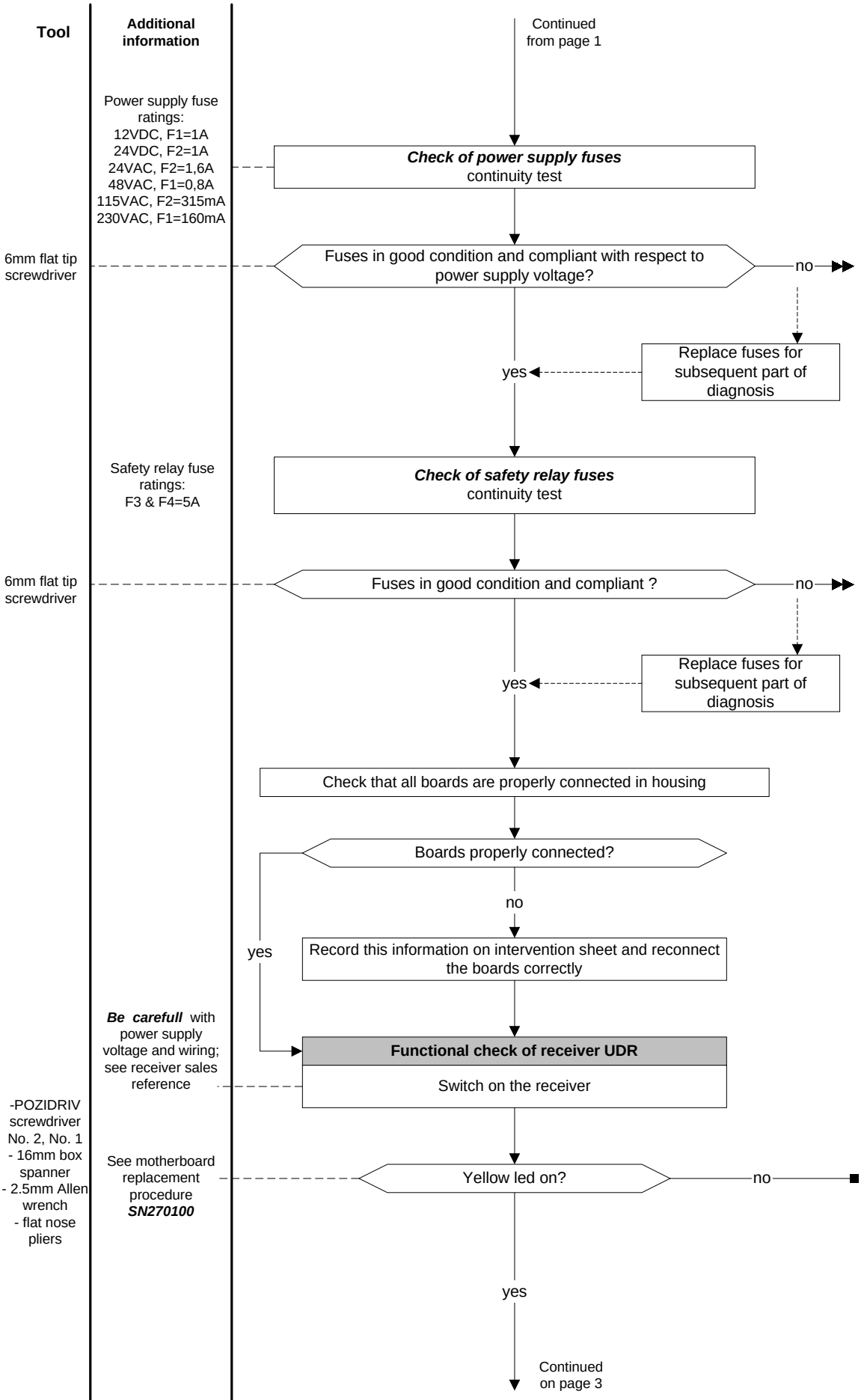
| Tool | Additional information | | PRODUCT INTERVENTION SHEET *(TO BE COMPLETED)* |
|---|---|---|---|
| | | | sub-assy to be replaced |




**Symbols:**
→▶▶: Continuee Diagnosis
—■: Stop Diagnosis

**Tool**

**Additional information**

**PRODUCT INTERVENTION SHEET**
*(TO BE COMPLETED)*

sub-assy to be replaced

Cont. from page 2

One or both leds (green or orange) flash?
no
yes

Serial link accessory ref.: **UDWR32** + "Dialog UD" software **v5.1minimum** ref.: **UDWR36**

Connect the receiver serial link board and set the option switch to "RS232"; orange led should come on steady.

In the "Dialog UD" software, read the receiver EEPROM memory

Orange led on?
no
yes

- Pozidriv screwdrivers No. 2 and No. 1
- 16mm box spanner,
- 2.5mm Allen wrench
- flat nose pliers

See motherboard replacement procedure ***SN270100***

Serial link board present?
no → ***PR0124 4/A/B*** Receiver motherboard
oui

**RESET the motherboard :**
1- Receiver switched ON
2- Press S2 button

Set the RS232 switch to "Normal" and reset the motherboard

Orange led on?
no
oui

Remove the RS232 board and reset the motherboard

Orange led on?
yes → ***PR0124 4/A/B*** Receiver motherboard
no → ***PR0138*** Serial link option

Checked customer transmitter or Test transmitter UDE

***Check of radio module***

Use the checked customer transmitter or test transmitter + serial link + PC and switch on the UDR in "RS232" mode

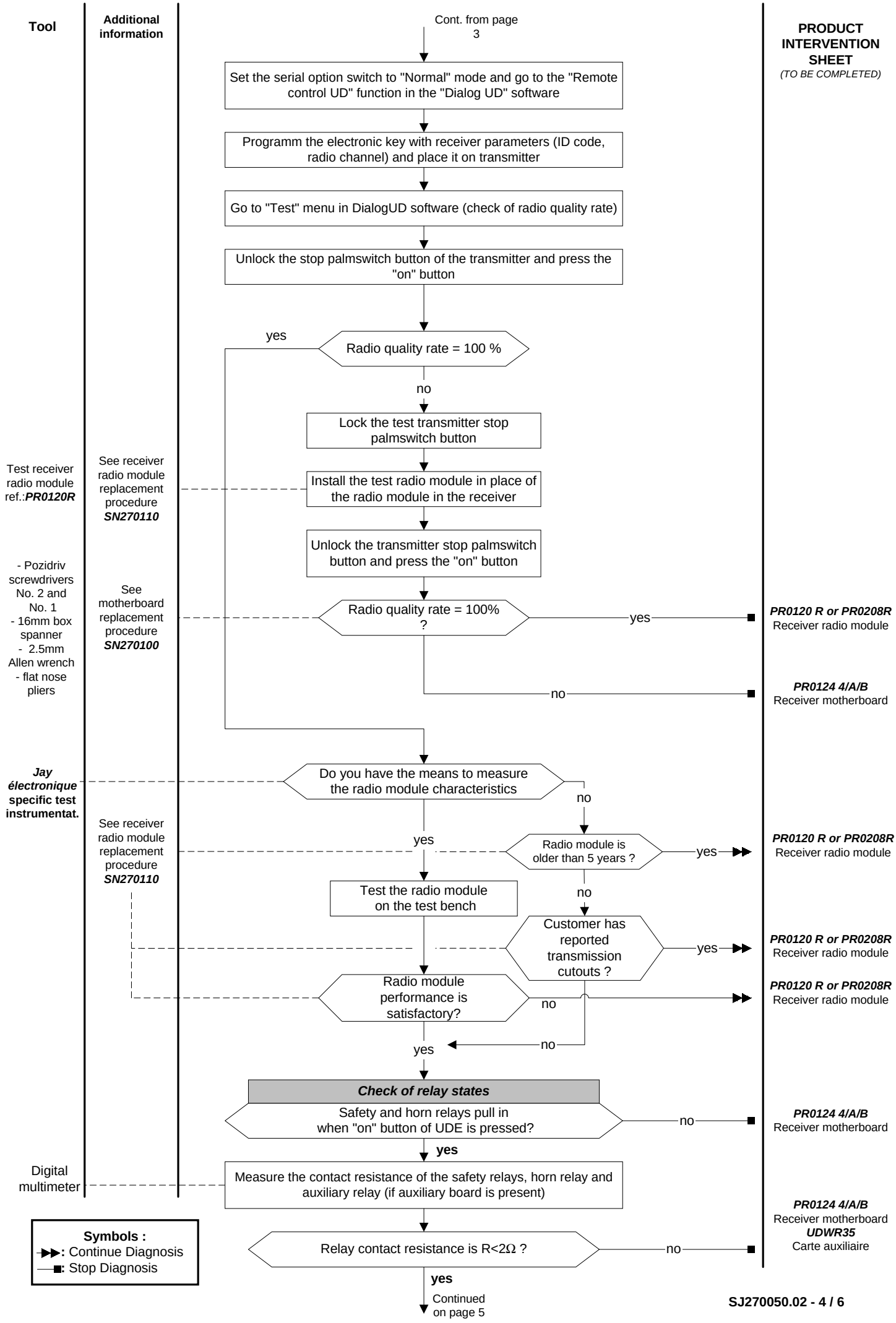
In the "Dialog UD" software, go the "EEPROM programming" menu. Read the receiver EEPROM memory.

For the receivers equipped with the IR startup function, untick this option to continue the diagnosis

Save the new parameters in the receiver EEPROM memory.

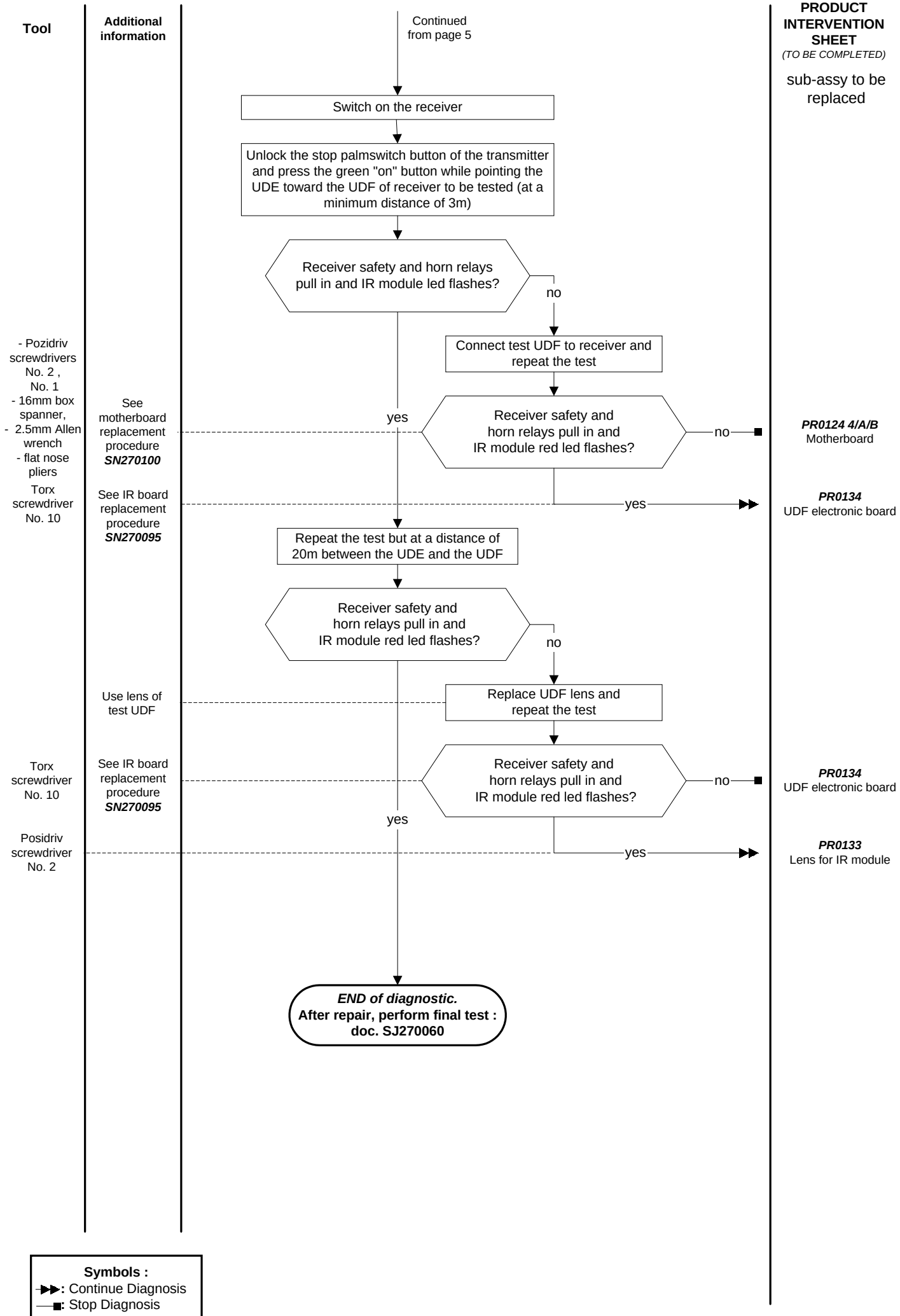
continued on page 4

**Symboles :**
▶▶: Continue Diagnosis
■: Stop Diagnosis


Tool
Additional information
PRODUCT INTERVENTION SHEET
(TO BE COMPLETED)
Cont. from page 3
Set the serial option switch to "Normal" mode and go to the "Remote control UD" function in the "Dialog UD" software
Programm the electronic key with receiver parameters (ID code, radio channel) and place it on transmitter
Go to "Test" menu in DialogUD software (check of radio quality rate)
Unlock the stop palmswitch button of the transmitter and press the "on" button
Radio quality rate = 100 %
yes
no
Lock the test transmitter stop palmswitch button
Test receiver radio module ref.:PR0120R
See receiver radio module replacement procedure SN270110
Install the test radio module in place of the radio module in the receiver
Unlock the transmitter stop palmswitch button and press the "on" button
- Pozidriv screwdrivers No. 2 and No. 1
- 16mm box spanner
- 2.5mm Allen wrench
- flat nose pliers
See motherboard replacement procedure SN270100
Radio quality rate = 100% ?
yes
PR0120 R or PR0208R Receiver radio module
no
PR0124 4/A/B Receiver motherboard
Jay électronique specific test instrumentat.
Do you have the means to measure the radio module characteristics
no
See receiver radio module replacement procedure SN270110
yes
Radio module is older than 5 years ?
yes
PR0120 R or PR0208R Receiver radio module
no
Test the radio module on the test bench
Customer has reported transmission cutouts ?
yes
PR0120 R or PR0208R Receiver radio module
Radio module performance is satisfactory?
no
PR0120 R or PR0208R Receiver radio module
no
yes
Check of relay states
Safety and horn relays pull in when "on" button of UDE is pressed?
no
PR0124 4/A/B Receiver motherboard
yes
Digital multimeter
Measure the contact resistance of the safety relays, horn relay and auxiliary relay (if auxiliary board is present)
PR0124 4/A/B Receiver motherboard
UDWR35 Carte auxiliaire
Relay contact resistance is R<2Ω ?
no
yes
Continued on page 5
Symbols :
▶▶: Continue Diagnosis
■: Stop Diagnosis

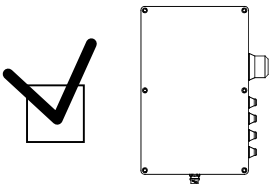
| Tool | Additional information | PRODUCT INTERVENTION SHEET *(TO BE COMPLETED)* |
|---|---|---|
| | | Continued from page 4 |
| | | Press the stop palmswitch button of the UDE |
| - Pozidriv screwdrivers No. 2, No. 1<br>- 16mm box spanner,<br>- 2.5mm Allen wrench<br>- flat nose pliers | See motherboard replacement procedure ***SN270100*** | Safety contacts open? — no → ***PR0124 4/A/B*** Receiver motherboard |
| | | yes |
| | | Unlock stop palmswitch button and press "ON", then, press one by one transmitter function buttons |
| | | yes — Action are transmitted ? |
| | | no |
| Test relay board ref. :***PR0122*** | | Install the test relay board in place of the faulty relay boards |
| | | Repeat the test |
| - Pozidriv screwdrivers No. 2 , No. 1<br>- 16mm box spanner,<br>- 2.5mm Allen wrench<br>- flat nose pliers | See motherboard replacement procedure ***SN270100*** | Action are transmitted ? — no → ***PR0124 4/A/B*** Motherboard |
| | | yes → ***PR0122*** Relay board |
| Digital multimeter | | Measure the contact resistance of the relays |
| | | Contact resistance of each function relay is R<2Ω ? — no → ***PR0122*** Relay board |
| | | yes |
| | | ***Test of IR start-up option*** |
| | | IR start-up option present in receiver? — no → ***END of diagnosis.*** **After repair, perform final test: doc. SJ270060** |
| | | yes |
| | | In the Dialog UD software, under the "UDR parameters" menu, read the receiver EEPROM memory. |
| | | Tick the IR startup option |
| | | Save the new parameter |
| | | Set the serial option switch to "Normal" mode. |
| | | Shut down the receiver |
| | | Equip the receiver with one of the UDFs to be tested (repeat the operation for each UDF to be tested and IR connector (3). |
| | | Continued on page 6 |

**Symbols :**
→▶▶: Continue Diagnosis
—■: Stop Diagnosis


Tool
Additional information
PRODUCT INTERVENTION SHEET
(TO BE COMPLETED)
sub-assy to be replaced
Continued from page 5
Switch on the receiver
Unlock the stop palmswitch button of the transmitter and press the green "on" button while pointing the UDE toward the UDF of receiver to be tested (at a minimum distance of 3m)
Receiver safety and horn relays pull in and IR module led flashes?
no
Connect test UDF to receiver and repeat the test
- Pozidriv screwdrivers No. 2 , No. 1
- 16mm box spanner,
- 2.5mm Allen wrench
- flat nose pliers
See motherboard replacement procedure SN270100
yes
Receiver safety and horn relays pull in and IR module red led flashes?
no
PR0124 4/A/B
Motherboard
Torx screwdriver No. 10
See IR board replacement procedure SN270095
yes
PR0134
UDF electronic board
Repeat the test but at a distance of 20m between the UDE and the UDF
Receiver safety and horn relays pull in and IR module red led flashes?
no
Use lens of test UDF
Replace UDF lens and repeat the test
Torx screwdriver No. 10
See IR board replacement procedure SN270095
Receiver safety and horn relays pull in and IR module red led flashes?
no
PR0134
UDF electronic board
yes
Posidriv screwdriver No. 2
yes
PR0133
Lens for IR module
END of diagnostic.
After repair, perform final test : doc. SJ270060
Symbols :
: Continue Diagnosis
: Stop Diagnosis

# UDR final test after intervention

**NEW DialogUD 5.1**
**It allows to test radio link quality between UDE and UDR**



**Additional information**

**START**

Switch on the receiver

Receiver led comes on? — no

yes

Safety microprocessor leds flash? — yes

no

***Key:***

=
Test negative, repeat technical diagnosis on product
(doc. SJ270050)

Serial link kit
ref.: **UDWR32**
+
"Dialog UD"software
**version 5.1 minimum**
ref.: **UDWR36**

Connect the receiver to a microcomputer
equipped with the "DialogUD" software
Go to "UDR parameters" and read receiver memory

For receivers equipped with IR startup function,
untick this option to continue the final test

Checked customer transmitter or test transmitter

Use checked customer transmitter or program test electronic key with receiver parameters and place it on test transmitter

Go to "Test" menu in DialogUD software (check of radio quality rate)

Set serial link option on "Normal" mode

Unlock the stop palmswitch button of the test transmitter
and press the "on" button.

Radio reception quality = 100% ? — no

(go to ***radio module check*** in document SJ270050)

yes

Safety and horn relays pull in when
"on" button of UDE is pressed? — no

(go to ***radio module check*** in document SJ270050)

yes

Press each transmitter function buttons

actions are transmitted to receiver ? — no

(go to ***receiver functional check*** in document SJ270050)

yes

Continued
on page 2

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Update with DialogUD v5.1 | E.DECHAME | 24.06.04 | Tech: | | Market: | |
| Jay électronique<br>BPS - 176, rue Lavoisier<br>MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX<br>Tel: +33.(0)4.76.41.44.00<br>Fax: +33.(0)4.76.41.44.44 | | **Final test UDR** | **Format:** | A4 | | | | |
| | | | **Filename:** | SJ270060-02-EN.VSD | | | | |
| | | | **DOC REF.:** | **SJ 270060.02** | | **Page:** | **1 / 2** | |

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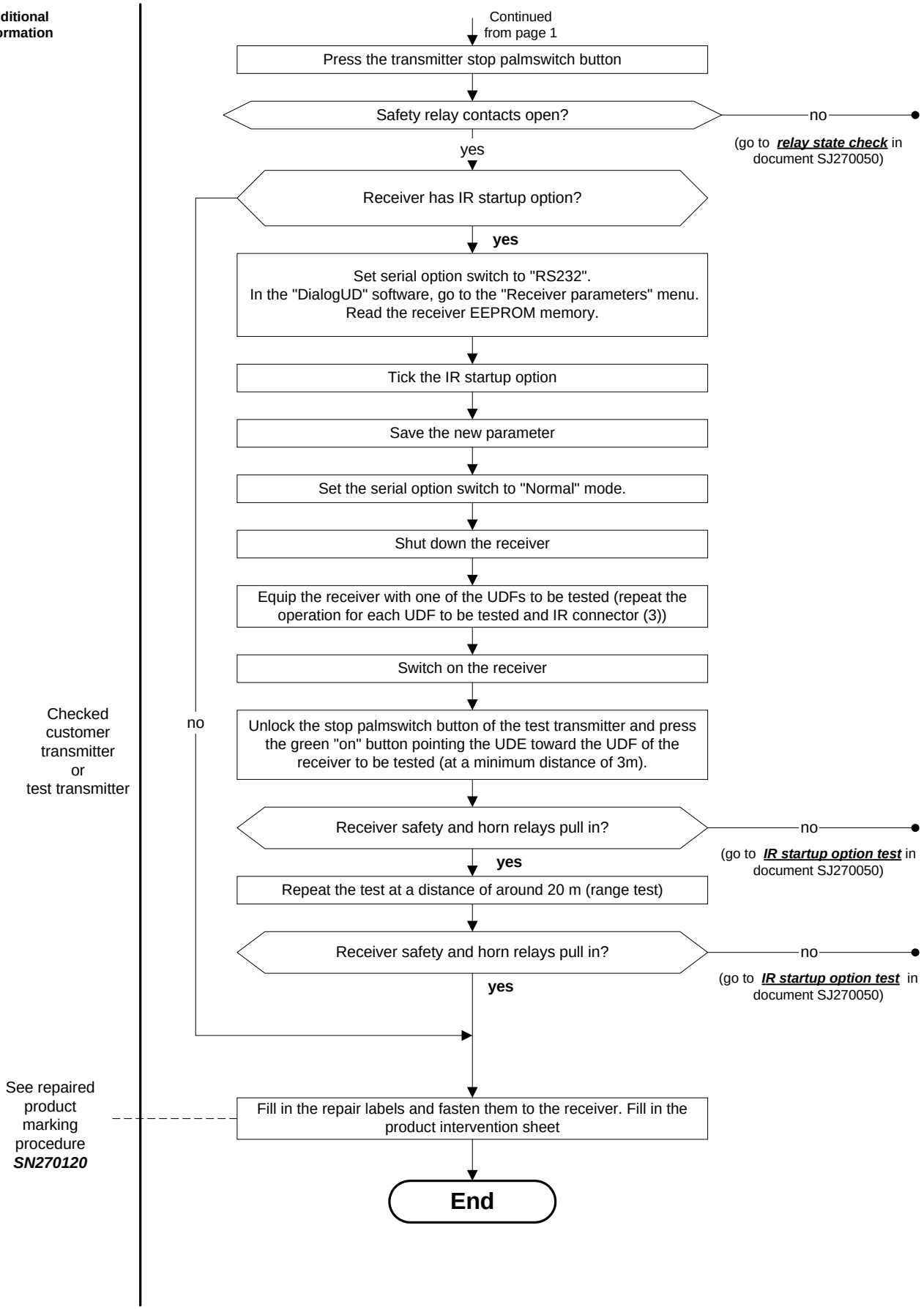
**Additional information**



# Changing the UDR receiver housing

**Receiver housing :**

**References : PR0125 .....** Receiver housing without serial link option (cover+housing+cable gland+screws+1 pre-printed descriptive label)
**PR0125 1 ....** Receiver housing with serial link option (cover+manufactured housing+cable glands+screws+1 pre-printed descriptive label)

**Tools : ..... n°2, n°1 Pozidriv screwdriver, 16mm box spanner, flat noze pliers, spanners kit PR0142**

**PR0125 kit**

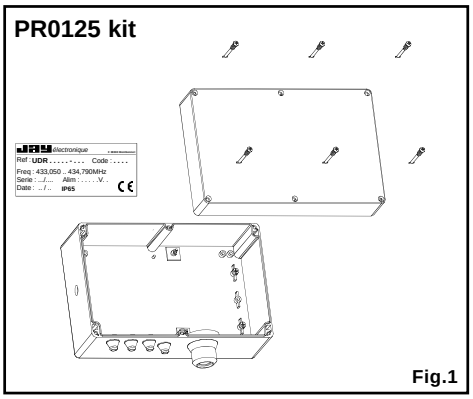


**Fig.1**

**PR0125 1 kit**

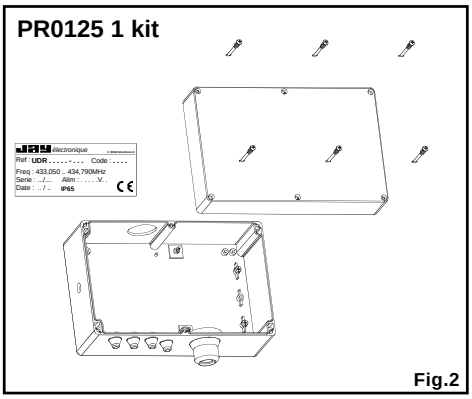


**Fig.2**

## Disassembly:

**1-** Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
**2-** Disconnect the wires connected to the various receiver connectors taking care to carefully mark the wires.
**3-** Remove the n°A relay board and the auxiliary board if present to access the motherboard mounting screws.
**4- Housing with serial option only, otherwise : go to step 5**
  **4.1-** Using the No. 1 Pozidriv screwdriver, remove the two screws securing the serial link board
  **4.2-** Using spanner in **PR0142** kit to remove the nut securing the serial link interface to the housing.
  **4.3-** Remove the serial option from the receiver housing.

**5-** Unscrew the outer nut of the BNC antenna connector using the 16mm box spanner.
**6-** Remove the washer from the BNC connector and remove the connector from its housing.
**7-** Remove the four screws securing the motherboard.
**8-** Using the flat noze pliers, unclip the two white spacers on the housing.
**9-** Remove the motherboard from the housing.

## Assembly:

**1-** Fit the new motherboard in the new housing by clipping the two spacers of the housing to the motherboard.
**2-** Secure the motherboard with the 4 mounting screws.
**3-** Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
**4-** Fit the washer on the BNC.
**5-** Secure the BNC connector with the nut using the 16mm box spanner.
**6-** Install relay board No. A and the auxiliary board if used.
**7- Housing with serial option only, otherwise : go to step 8**
  **7.1-** Run the serial option board through the hole of the housing provided for this purpose and through the clamping nut.
  **7.2-** Connect and secure the serial link board to the motherboard by its two mounting screws.
  **7.3-** Tighten the interface nut on the housing with spenner in **PR0142** kit.

**8-** Re-wire the customer wiring on the receiver if necessary.
**9-** Close the housing.
10- Fill in the pre-printed descriptive label and fasten it to location indicated in document **SN270120**

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Assembly/Disassembly procedures updated | E.DECHAME | 05.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | |
|---|---|
| **Changing the receiver housing UDR** | **Format:** A4 |
| | **Filename:** SN270090-02-EN.P65 |
| | **DOC REF.:** **SN 270090.02** **Page:** 1 / 1 |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# Changing the UDF IR module electronic board

**UDF IR electronic board :**

**Reference : PR0134**

**Tools : ..... n°2 Pozidriv screwdriver, n°10 Torx screwdriver, Soldering iron**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | UDF IR electronic board | 1 |
| **B** | Torx 10 screw | 2 |

**PR0134 Kit**

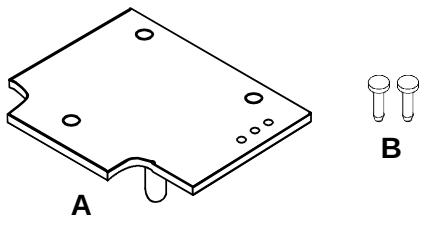


**Fig.1**

## Disassembly :

**1-** Open the UDF housing using the no.2 Pozidriv screwdriver.
**2-** Remove screws from the UDF electronic board.
**3-** Unsolder UDR - UDF connection wires from the UDF electronic board.

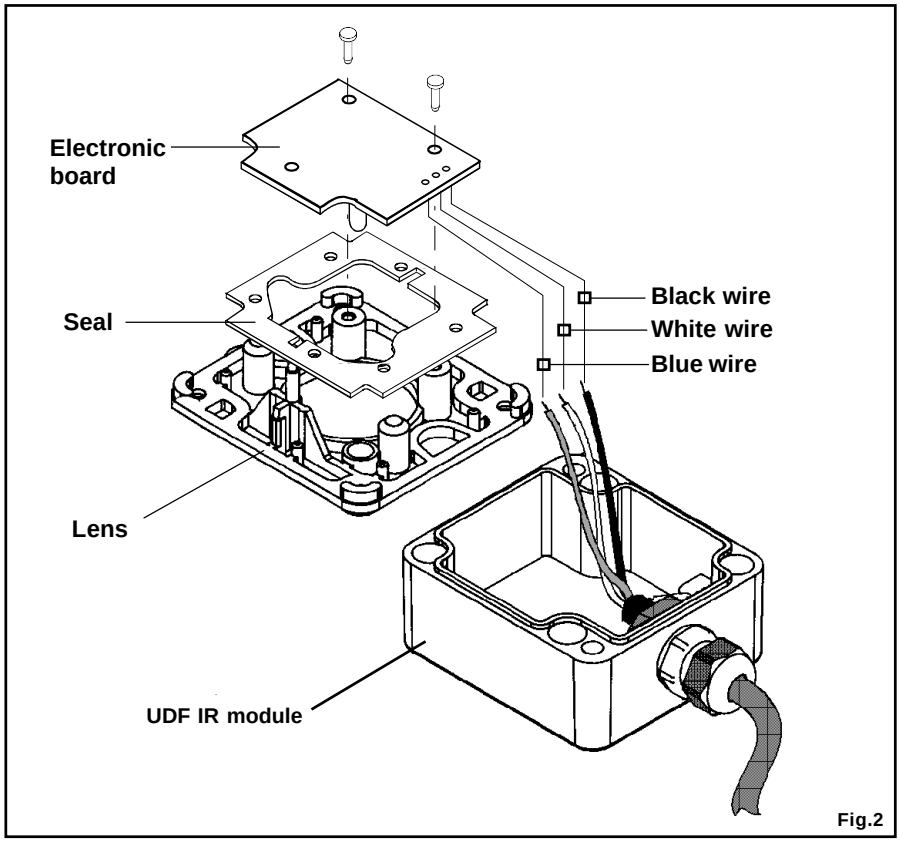


**Fig.2**

## Assembly :

**1-** Solder connection wires on electronic component side (pay attention to color and position see fig.2)
**2-** Secure the electronic board on lens with 2 torx no.10 screws.
**3-** Close UDF housing.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 01 | T 727 | Minor update | E.DECHAME | 05.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


| | | | |
|---|---|---|---|
| **Changing the IR module electronic board** **UDF** | **Format:** | A4 | |
| | **Filename:** | SN270095-01-EN.P65 | |
| | **DOC REF.:** | **SN 270095.01** | **Page:** 1 / 1 |


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# Changing the receiver motherboard

**Receiver motherboard kits :**

**References : PR0124 A ....** motherboard UDR 24-48VAC
**PR0124 B ....** motherboard UDR 115-230VAC
**PR0124 4 ....** motherboard UDR 12-24VDC

**Tools : ..... n°2 n°1 Pozidriv screwdrivers, 16mm box spanner, electronic flat noze plier, 2.5mm Allen wrench, Spanner kit PR0142**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| A | Mounting screws | 4 |
| B | Pre-printed descriptive labels | 2 |
| C | UDR motherboard | 1 |

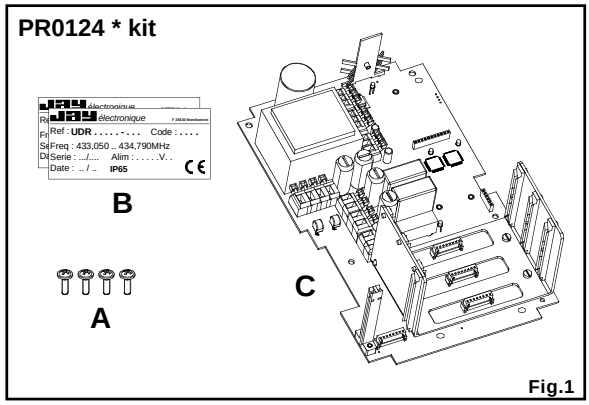

Fig.1

**Note :** Please refer to the instructions described in the document **SN270080** for motherboard / radio module pairing, according to UDR version number.

## Disassembly:

**1-** Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
**2-** Disconnect the wires connected to the various receiver connectors taking care to mark the wires.
**3-** Remove the auxiliary board if present and relay boards
**4-** **Housing with serial option only, go to step 5. Otherwise:**
- **4.1-** Using the No. 1 Pozidriv screwdriver, remove the 2 screws securing the serial link board.
- **4.2-** Using the spanner from **PR0142** kit, remove the nut securing the serial link interface to the housing.
- **4.3-** Pull out the serial link board through the housing.

**5-** Remove the nut securing the BNC using the 16mm box spanner.
**6-** Remove the washer from the BNC and remove the BNC from its housing.
**7-** Remove the screw securing the receiver radio module.
**8-** Unplug the radio module and remove the assembly formed by the radio module + BNC connector from the motherboard.
**9-** Remove the 4 screws securing the motherboard.
**10-** Using the electronics flat noze pliers, unclip the two white spacers of the housing.
**11-** Remove the motherboard from the housing.
**12-** Remove the Allen screw from the antenna plate using the 2.5 mm Allen wrench.
**13-** Remove the antenna plate.

## Assembly:

**1-** Fit the motherboard in the housing by clipping the 2 spacers of the housing to the motherboard.
**2-** Secure the motherboard with the 4 mounting screws.
**3-** Install the antenna plate on the motherboard and secure it with the Allen screw.
**4-** Carefully plug the radio module into the motherboard, running the antenna wire between the two IR connectors.
**5-** Secure the radio module with its mounting screw to the motherboard using the No. 1 Pozidriv screwdriver.
**6-** Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
**7-** Fit the washer on the BNC.
**8-** Secure the BNC with the nut using the 16mm box spanner.
**9-** Install the relay boards and the optional board if used.
**10-** **Receiver with serial option only, go to step 11. Otherwise:**
- **10.1-** Run the serial option board through the hole in the housing provided for this purpose and through the clamping nut.
- **10.2**- Connect and secure the serial link board to the motherboard by its two mounting screws.
- **10.3-** Tighten the interface nut on the housing with spanner from **PR0142** kit.

**11-** Re-wire the customer wiring to the receiver if necessary.
**12-** Fill in pre-printed descriptive labels and fasten them to locations indicated in document **SN270120**.
**13-** Close the housing.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Descr.labels added, note about mobo / radio module pairing | E.DECHAME | 06.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44


**Changing the receiver motherboard**
**UDR**

| | | | |
|---|---|---|---|
| Format: | A4 | | |
| Filename: | SN270100-02-EN.P65 | | |
| DOC REF.: | **SN 270100.02** | Page: | 1 / 1 |


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# Changing the UDR receiver radio module

**Receiver radio module :**

**References : PR0120 R ....** Radio module for UDR version A001 to B002 included
**PR0208 R ....** Radio module for UDR version B003 and higher

**Tools : ..... n°2 and n°1 Pozidriv screwdrivers, 16mm box spanner .**

**Parts list :**

| Item | Description | Quantity |
|---|---|---|
| **A** | Mounting screw | 1 |
| **B** | Receiver radio module | 1 |
| **C** | Spacer | 1 |
| **D** | BNC washer | 1 |
| **E** | BNC nut | 1 |

**PR0120 R**
or
**PR0208 R**

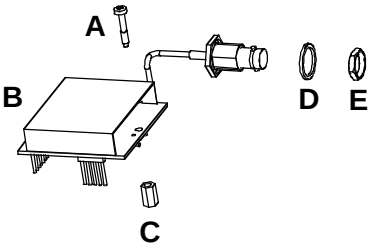
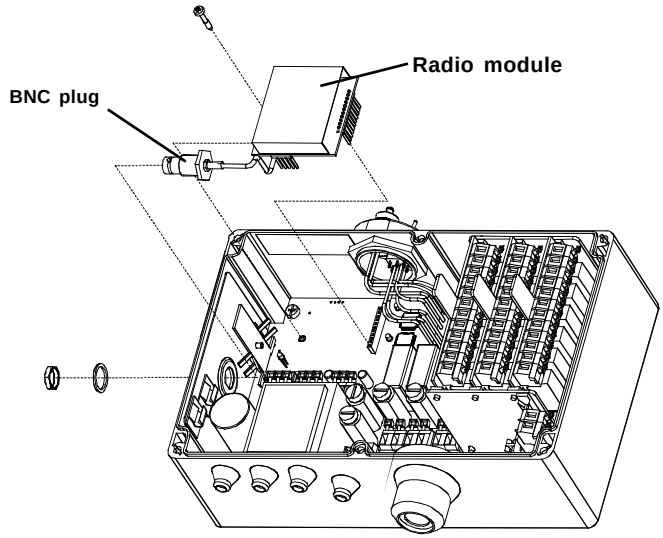



**Fig.1**

**Note :** Please refer to the instructions described in the document **SN270080** for motherboard / radio module pairing, according to UDR version number.

## Disassembly:

**1-** Open the UDR housing using the No. 2 Pozidriv screwdriver by loosening the quarter-turn screws.
**2-** Unscrew the outer nut on the BNC using the 16mm box spanner.
**3-** Remove the washer from the BNC and remove the BNC from its housing.
**4-** Remove the screw securing the receiver radio module with n°1 Pozidriv screwdriver.
**5-** Unplug the radio module and remove the assembly from the motherboard.




(UDR represented with serial link option and auxiliary board)

## Assembly:

**1-** Carefully connect the new radio module to the motherboard (see fig.2).
**2-** Secure the radio module with its mounting screw to the motherboard using the No. 1 Pozidriv screwdriver.
**3-** Engage the BNC connector in the housing with the connector flat aligned with the locator on the antenna plate.
**4-** Fit the washer on the BNC.
**5-** Secure the BNC connector with its nut using the 16mm box spanner.
**6-** Close the receiver housing.

| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | Note about mobo / radio module pairing | E.DECHAME | 06.07.04 | Tech: | | Market: | |


Jay électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tel: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44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|---|---|
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| | **Filename:** SN270110-02-EN.P65 |
| | **DOC REF.:** **SN 270110.02** **Page:** 1 / 1 |


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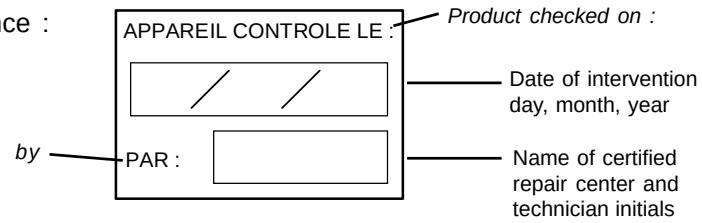
# Markings on repaired UDR receiver

## 1- Repair label

Two repair labels must be filled in and applied to the receiver (see location in § 3).

**Repair labels must be applied after each intervention (under warranty or not)**

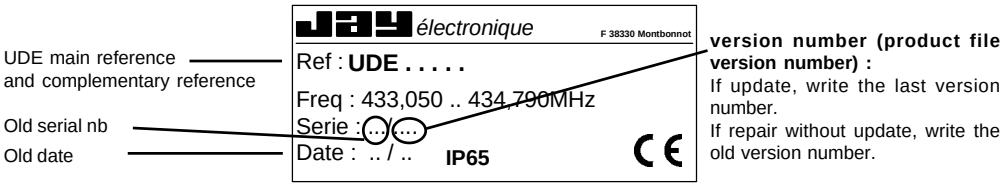
Repair labels can be ordered under reference : **PR0229** (a roller of 1000 labels)



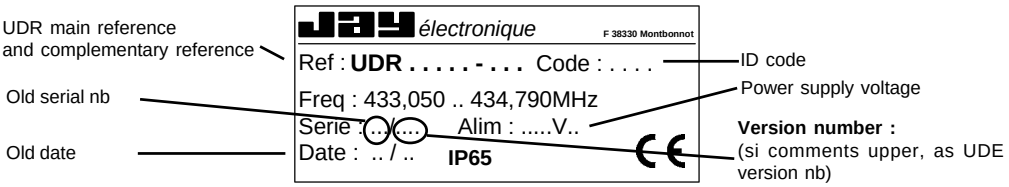

## 2- UDE transmitter, electronic key and appaired UDR receiver descriptive labels

If the unit has been transformed, the information on the transmitter and receiver nameplates must be changed accordingly. To do so, use blank nameplates, filled in as follows:

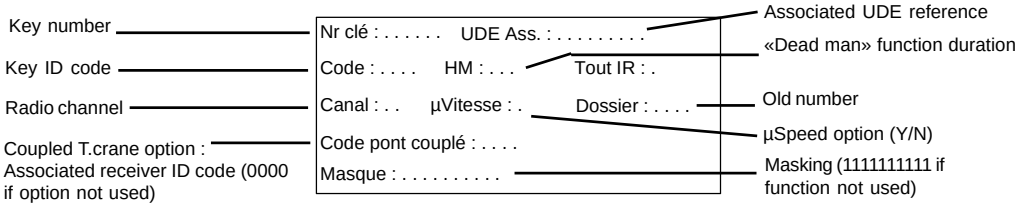
**UDE labels**
(location on below)



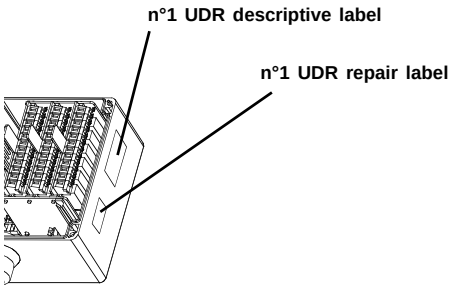

**UDR labels**
(see UDR data repair package)

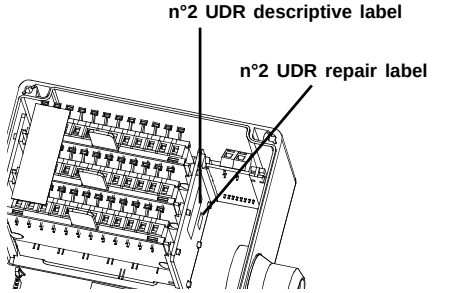



**electronic key para. labels**
(to be sticked on page n°2 of this document, and send to customer)




## 3- Location of repair labels and descriptive labels on UDR




| Index | Modif. No. | Modification | Name | Date | Approved by: | | | |
|---|---|---|---|---|---|---|---|---|
| 02 | T 727 | New pictures and descriptive labels + electronic key label | E.DECHAME | 06.07.04 | Tech: | | Market: | |


électronique
BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX
Tél: +33.(0)4.76.41.44.00
Fax: +33.(0)4.76.41.44.44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| **Markings on repaired receiver UDR** | **Format:** | A4 | |
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# UDE transmitter
# Grey key identification sheet

**KEEP THIS DOCUMENT**

Read and keep this document in a safe location.
It contains important information concerning the key which you have just received

For operation of your radio remote control, refer to the UD installation and user manual.

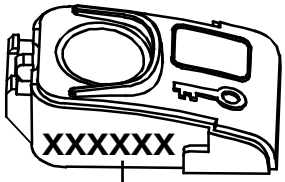
An identification No. is engraved on the side of the electronic key.
This key contains all the parameters of your transmitter, ensuring correct communication with the associated receiver (Frequency channel, identification code, dead man time ...)

Please indicate this identification No. when ordering a new identical key.

Please identify your electronic key using the label supplied with the key.

Fill in the identification of the equipment controlled by this key.

**UDE transmitter electronic key**




(6-digit number engraved on electronic key)

**Electronic key parameter label :**
(to be sticked by the repairman)

**Equipment :**
(to be filled in by the customer)

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BP5 - 176, rue Lavoisier
MONTBONNOT - St MARTIN - 38334 St ISMIER CEDEX - FRANCE
Phone: 04.76.41.44.00 / Fax: 04.76.41.44.44
www.jay-electronique.fr

**Doc : SN270120.02**